CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, March 17, 1910.

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RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

AUGUSTA, LINCOLNTON & NORTHERN.—Application will be made in Georgia for a charter. Capital, $1,000,000. Company plans to build from Augusta, Ga., northwest via Lincolnton and Tignall to Danielsville, in Madison County, about 80 miles. The incorporators are S. L. Wilkes and J. C. Groves, of Lincolnton; John J. Wilkinson, C. D. Bolton and Thos. W. Hill, of Wilkes County; Thomas H. Verdel, W. A. Swift, T. M. Swift, Jr., and Z. C. Hayes, of Elberton County; and E. N. Cobb, of Athens, Clarke County.

BALTIMORE & OHIO.—This company, it is announced, will soon be ready to receive bids for the elimination of five grade crossings within the city limits of Columbus, Ohio. The five crossings to be improved are at West Broad St., West Town St., Sullivant Ave., Central Ave. and McKinley Ave. A. M. Kinsman is Ch. Engr., Baltimore, Md.

BROWNWOOD NORTH AND SOUTH.—We are officially advised that bids were received on March 10 for clearing and grading about 18 miles of line from Brownwood, Tex., north to May. Contract was awarded to the TEXAS BUILDING CO., of Fort Worth, Tex. This line is being financed by local capital. Brooke Smith is Pres., Brownwood; John Mead is Ch. Engr., Brownwood. Noted on Jan. 6 and March 3.

BROWNWOOD SOUTHWESTERN.—We are officially informed that A. B. Carson, of Brownwood, Tex., has been employed as chief engineer. Party is now making survey. Contract for building 30 miles of railway will be let about May 1. Noted on March 10.

BUCKHANNON & NORTHERN.—The proposed route for this railway is from the northern boundary of West Virginia along the Monongahela River to Fairmont, W. Va. S. D. Brady, of Parkersburg, W. Va., is Ch. Engr. The line will be 35 miles long. B. M. Laughead, Morgantown, W. Va., is Locating Engr. Noted on Feb. 24.

CANADIAN PACIFIC.—We are officially advised that the following construction work is proposed for this year: From Outlook, Sask., northwest to Macklin, on the Pheasant Hills branch, a distance of 147.7 miles. Regina, Sask., south to Griffin, 79 miles. Craven, Sask., north to Colonsay, on the Lanigan Section, 110.3 miles. Extend Weyburn (Sask.) westerly, line 25 miles west of Forward. Extend Kipp (Alta.) northwest line 30 miles northwest from Carmangay. Extend Lauder (Man.) west line 24 miles west from Tilston. High-level bridge over the Saskatchewan River at Edmonton. steel viaduct over the Saskatchewan River at Outlook, Sask. Second-track from Winnipeg to Portage la Prairie.

Among the larger local projects are the following: At Fort William—bridge over Kaministikwia River; also bridges over the McKellar River; also new union passenger depot. Winnipeg—Subway at McPhillips St.; new freight car shops. Yorkton—New station.

Company will do considerable work in the way of increasing side track accommodation on the Central Division.

On the Western Division estimates provide for a large number of new station buildings and extension of sidings. Some of the more important works on this division are as follows: Regina—Subway at Albert St.; freight shed, tracks and team tracks. Moose Jaw—Extension to yards. Swift Current—Yard improvements. Weyburn—Freight shed and transfer platform. Medicine Hat—Machine shop. Lethbridge—Yard extension and alterations. Calgary—New terminal yard. Banff—New station. Cranbrook—Y. M. C. A. building.

On the Pacific Division company intends increasing its siding accommodations. The larger undertakings are as follows: Field—Yard extension. Vernon—Fruit packing house. Summerland—Freight shed, fruit packing house, car slip and transfer apron. North Bend—Yard improvements. Vancouver, B. C.—Freight yard alterations. Kamloops—Extension and revision of yards. J. E. Schwitzer, Asst. Ch. Engr., Western Lines, Winnipeg, Man. Noted on Feb. 17.

C. J. Bury, Gen. Mgr. of the Western Lines, C. P. R., Winnipeg, advises us "that the press item which you mention (in issue of Feb. 10), quoting me as stating that the Canadian Pacific Railway purposed spending $30,000,000 in the West this year, was unauthorized, and, as is usual with unauthorized statements, was greatly exaggerated."

CARLTON & COAST.—Incorporated in Oregon, with $500,000 capital and principal office in Carlton, Ore., to build from Carlton northwest via Fairdale to Tillamook Bay, about 43 miles. The incorporators include: W. D. Dennis, F. Russell and S. B. Linthicum, of Portland. Incorporated by the same men and with a capital stock of $200,000 is the Carlton Consolidated Lumber Co, which will take over the property of the Carlton Lumber Co., consisting of a modern sawmill and large tract of timber. Road will haul logs from the camp to the mill.

CHICAGO, WEATHERFORD & BRAZOS VALLEY.—It is announced that the Chicago, Weatherford & Brazos Valley R. R., which is to run between Weatherford and Bridgeport, Tex., about 30 miles, will be built by the MITCHELL & PIGG CONSTRUCTION CO., of Weatherford. A bonus of $60,000 in aid of the proposed road was subscribed by the citizens of Weatherford.

ENID, OCHILTREE & WESTERN.—Company has amended its charter, authorizing it to build an additional 55 miles from Ochiltree, Tex., east to the Oklahoma state line. It is announced that the route has not been definitely decided upon and a further extension is contemplated, with Enid, Okla., as the eastern terminus. A contract has been given to the PANHANDLE CONSTRUCTION CO., 34 Nassau St., New York, represented by Fred L. Brant, Mgr. and Asst. Treas., at Dalhart, Tex. Work is now under way from Ochiltree, west via Hansford, thence southwest via Jarvis and Parksdale to Dumas, thence northwest to Dalhart, 111 miles. Connection tracks with the Fort Worth & Denver City Ry. and the Rock Island Lines, at Dalhart, have been finished. Track is laid for about four miles on the main line. Noted on Oct. 7, '09.

FLORIDA RY.—Contracts have been let to the FLORIDA CONSTRUCTION & REALTY CO., Jacksonville, Fla., for an extension from Live Oak, Fla., east to Jacksonville, and north to Fernandina, about 100 miles. There will be four steel bridges, also docks, shops and station buildings. Noted on Feb. 10.

FULLERTON & RICHFIELD.—Incorporated in California to build a 5-mile line for the Santa Fe system between Fullerton and Richfield (Anaheim P. O.), Orange County, Cal. Capital stock, $130,000. Directors: A. G. Wells, G. Holterhof, Jr., W. H. Brewer, J. L. Hibbard and C. W. Jones.

GEORGIA, FLORIDA & ALABAMA.—Contract has been let to J. H. HENING, Birmingham, Ala., to build an extension from Kimbroughs, Ga., north to Richland, six miles. C. G. Barney is Ch. Engr., Bainbridge, Ga.

KENTUCKY HIGHLANDS R. R.—See Louisville & Nashville R. R.

LOUISVILLE & NASHVILLE.—Contract has been let by the Louisville & Nashville R. R. Co. to the VAUGHAN CONSTRUCTION CO., of Roanoke, Va., to build an extension of the Kentucky Highlands R. R. from Millville to Versailles, Ky., 9.6 miles. Construction will begin at once. J. E. Willoughby, Louisville, Ky., is Ch. Engr. of the Highlands extension.

NORTH & SOUTH CAROLINA RY.—We are officially advised that W. R. BONSAL & CO., Hamlet, N. C., have contract for building the 17-mile extension from Dillon to Mullins, S. C. Wm. Moncure is Ch. Engr., Hamlet. Noted on Feb. 10.

NORTHERN PACIFIC.—Contract has been awarded to the HURLEY-MASON CO., of Portland, Ore., covering all of the masonry from Tenino to Vancouver, Wash., a distance of 100 miles of the regrading and double tracking for the Northern Pacific Ry. This contract involves about 40,000 cu. yds. of concrete, for which the cement alone will cost nearly $100,000. The work consists of all of the bridge work from the small culverts up to the large bridges crossing the Lewis River, Kalama River, Cowlitz River, Toutle River and numerous smaller streams.

PARIS & SOUTHERN.—Incorporated in Idaho with $100,000 capital stock. Headquarters at Harrison, Idaho. Company will build a line from Harrison to Bell Creek, thence to the head of that stream, and then south to a connection with the Chicago, Milwaukee & Puget Sound Ry. P. H. Wall, M. K. Wall and A. A. Crane are incorporators.

TEMPLE NORTHWESTERN.—We are officially informed that general contract has been let to D. G. GRIGSBY, Dallas, Tex., for building this railway from Temple to Comanche, via Gatesville and Hamilton, about 110 miles. Surveys are made and capital secured. Right-of-way is being obtained now. Company has not yet organized. W. J. McDaniel, Temple, Tex., is Ch. Engr. Noted on Jan. 20, under "Texas."

TENNESSEE RIVER.—This company, according to the "Manufacturer's Record," is building its line in Tennessee from Richard City to the head of Kings Cove, about six miles, where the town of Rexton is being formed. Grading is completed and more than four miles of track laid. Construction is under way on the mountain incline. Arthur Crownover is Pres.; I. P. Byrom, Vice-Pres.; I. W. Crabtree, Secy. and Treas., all at Winchester, Tenn. G. H. Crozier, of South Pittsburg, Tenn., is Engr.

TRANSCONTINENTAL RY.—Bids will be received by P. E. Ryan, Secy. Comrs. of the Transcontinental Ry., Ottawa, Ont., until noon, March 23, for 24,733 gross tons of 80-lb. steel rails (open hearth or Bessemer, at the option of the Commissioners, and the necessary rail fastenings, in strict accordance with the specifications of the Commissioners. Bids must be made on the forms supplied by the Commissioners, which, as well as the specifications, may be obtained on application to Gordon Grant, Ch. Engr., Ottawa, Ont. Full information in regard to deliveries, etc., can be had on application to the Chief Engr.

Bids will be received by P. E. Ryan, as above, until noon, April 12 for (1) machines and tools; (2) leather belting; (3) shafting, hangers, steel frame work, etc.; (4) miscellaneous equipment, industrial track and lockers; (5) motors; (6) furnaces and forges; (7) cranes; (8) air compressors; (9) gray iron foundry equipment and brass foundry equipment. These materials are required for the equipment of the locomotive and other shops of the Commissioners of the Transcontinental Railway at Springfield, east of Winnipeg, Man. Bids will be received and considered for any or all of the items indicated above and numbered from 1 to 9, both inclusive. Plans and specifications may be seen in the office of the Chief Engineer of the Commissioners at Ottawa, Gordon Grant, and in the office of the District Engineer of the Commissioners at St. Boniface, Man., S. R. Poulin.

TRINITY VALLEY & NORTHERN.—Contracts have been let to L. S. POWELL, Fouts, Tex., and to P. RAZOR, Dayton, Tex., for building ten miles of new line from Fouts, northward. Noted on Feb. 3. A. J. Wise is Ch. Engr., Houston, Tex.

ELECTRIC RAILWAYS.

MEADVILLE, PA.—An order has been issued by Federal Judge Chas P. Orr, that the property at Meadville & Conneaut Lake Traction Co. be sold by the receiver on April 12. It was made on motion of attorneys for the receiver in the suit of the General Electric Co., upon petition of the Guarantee Title & Trust Co. and the Real Estate Trust Co., of Philadelphia.

POTTSTOWN, PA.—The Pottstown & Reading St. Ry. Co., it is announced, will begin construction soon on the extension from Sanatoga to Royersford, via Linfield. C. T. Leland is Secy., Philadelphia. Harry Sweinhart is Gen. Mgr., Pottstown.

WASHINGTON, D. C.—A bill providing for the incorporation of the East Washington Suburban Railway Co. has been introduced in the House of Representatives. The incorporators are Samuel E. Cox, William A. Harrison, and A. W. Thomas, of Maryland; Albert Carry, O. A. Emmons, John Kuhn, Maurice Otterback, Robert Bradbury, and George E. Emmons, of the District of Columbia; Reese Carpenter, of New York, and R. H. Phillips and J. S. Sims, of Virginia. The line of the proposed electric road begins near the intersection of Nichols Ave. and Good Hope Road; thence along or near the Good Hope Road to the Bowen Road, and following the Bowen and Suitland roads to the district line. An exchange of free transfers between the proposed line and the Anacostia & Potomac River R. R. is provided for in the bill.

FAIRMONT, W. VA.—The Fairmont & Pittsburg Railway Co., of Fairmont, capital stock, $1,000,000 has been chartered to build a line from Fairmont to Blacksville, W. Va.; Waynesburg, Pa., and Pittsburg; also another line from Fairmont to Mannington, Blackville and Morgantown, and returning to Fairmont via the Monongahela River. The officers are: W. M. Laws, Pres., Jersey City, N. J.; Harry F. Smith, Vice-Pres., Fairmont; S. E. Miller, Secy., Fairmont; J. R. Linn, Treas., Fairmont; J. Fred Beatty, Gen. Mgr., Mannington, W. Va.

RUTHERFORDTON, N. C.—The Isothermal Traction Co., of Rutherfordton, recently chartered with $4,000 capital (which may be increased to $100,000), to build an electric railway from Rutherfordton to Gastonia, N. C., 50 miles, has elected officers as follows: K. S. Finch, Pres. and Gen. Mgr., Charlotte, N. C.; John C. Mills, Vice-Pres.; J. F. Flack, Secy and Treas., both of Rutherfordton. Authority is granted to build branches not exceeding 50 miles. Noted on March 3.

CHARLESTON, S. C.—The Charleston Consolidated Railway, Gas & Electric Co. will soon place contracts for building four miles of track. P. H. Gadsden, Charleston, is Pres.

ROANOKE, VA.—The Mill Mountain Incline Co. has awarded a contract to the LIDGERWOOD MFG. CO., 96 Liberty St., New York, for the equipment of an incline on the side of Mill Mountain as a pleasure and home resort. The work is to be ready in 60 days, as the company intends to begin operation of the road in 90 days. The total cost of the construction will be $30,000, exclusive of improvements, to be made on the properties now located on the mountain table land. Noted officially on March 3.

COLUMBUS, OHIO.—The Ohio & Southern Traction Co., of Columbus, has amended its charter to permit the building of a traction line in Franklin County to connect the Lockbourne Road with the present southern terminus, the Hartman farm. The distance will be 6.82 miles. Construction will be started early in the spring. F. W. Jennings, Ch. Engr., 115 E. Rich St., Columbus.

FORT WAYNE, IND.—We are officially advised that the KEYSTONE CONSTRUCTION CO. will build the Fort Wayne & Toledo Elec. Ry. The construction company will be organized with headquarters at Harlan, Ind. The railway will be about 55 miles long and will connect Fort Wayne and Harlan, Ind.; Hicksville, Farmer, Bryan and Montpelier, Ohio. Surveys are made and right-of-way mostly obtained. Grading is under way. E. A. Tennis is Pres., Garden City, Kan.; R. T. Bastress, Harlan, Ind., is Gen. Mgr.

ELDORADO, ILL.—The Egyptian Traction Co. probably will begin on its projected railway, which is to connect Murphysboro, Marion, Carrier Mills, Harrisburg, Eldorado, Ridgway, New Haven, Ill., and Mount Vernon, Ind. It will also reach White City, an amusement resort at Harrisburg. Geo. E. Leggett, Winchester, Ind., is Pres. and Gen. Mgr.; John W. Murphy, Eldorado, Ill., Vice-Pres.; G. E. K. Hixon, Eldorado, Secy.; J. D. Stayton, Eldorado, Treas., and Geo. Clark, Harrisburg, Ill., Ch. Engr.

McLEANSBORO, ILL.—The Illinois Oil & Coal Belt Ry. Co. has been incorporated in Illinois to build a 190-mile electric railway to connect Terre Haute, Ind., Robinson, Olney, Fairfield, McLeansboro and Cairo, Ill. Capital stock, $1,000,000. Headquarters, McLeansboro. J. R. Campbell, McLeansboro, Pres.; Joseph W. Crowley, Robinson, Ill., Vice-Pres.; Isaac H. Webb, McLeansboro, Secy.; J. H. Lane, McLeansboro, Treas.; Allen G. Russell, Chicago, Ch. Engr.

GILBERT, MINN.—The Mesaba Traction Co., it is stated, has been granted a franchise to construct an electric railway in Gilbert. This is part of a plan to build an electric railway between Eveith and Virginia. W. M. Prindle, Duluth, and W. D. Chapman, of Chicago, are interested.

PINE BLUFF, ARK.—J. F. Rutherford, Pres. of the Citizens' Light & Transit Co., announces that the company's car lines will be practically rebuilt and important extensions will be made, commencing in July. W. J. Ellis is Ch. Engr.

SEATTLE, WASH.—The Seattle & Snohomish Electric Railway Co., represented by C. W. Kimball, of Seattle, has applied for a 50-year franchise for an electric street railway from Seattle to Snohomish.

MESA, ARIZ.—The Consolidated Canal Co., of Mesa, probably will build an electric railway in the near future in connection with other work. A. J. Chandler is Pres. and Gen. Mgr.

BRANTFORD, ONT.—The Grand Valley Ry. Co. probably will award contracts during the next three months for the construction of 116 miles of interurban railway and 12 miles of city line. William D. Kellett, Ch. Engr., 48 Colborne St., Brantford.

ENGLAND.—An American consul in England has forwarded the names of seven towns in his district which have an electric car system, together with the total authorized mileage, mileage under operation, and the money invested. He states that much of the equipment of these lines was purchased in the United States, and as the companies are from time to time extending their service, making repairs and renewals, and linking up existing tracks, it is suggested that American firms follow these developments and endeavor to secure further orders in that district. For addresses, details, etc., apply to the Bureau of Manufactures, Dept. Commerce and Labor, Washington, D. C. Refer to file No. 4616.

LIGHT AND POWER PLANTS.

PORTLAND, ME.—Bids will be received at the office of the Constructing Quartermaster, 655 Congress St., Portland, until April 2, for the construction, plumbing, heating and electric lighting of the following buildings at Fort Williams, Me.: One administration building, plan 169-C (brick); one guardhouse, plan 206 (brick); two sets field officers' quarters, plan 236 (brick); two double sets captains' quarters, plan 256 (concrete); one double set lieutenants' quarters, plan 260 (brick); one bakery, plan 217 (brick); one quartermaster's storehouse, plan 198 (brick). Plans, specifications, blank forms for proposals, etc., furnished on application and are on file in the office of the Chief Quartermaster, Department of the East, Governor's Island, N. Y., and at office of Constructing Quartermaster, 263 Summer St., Boston, Mass. Captain C. F. Humphrey, Jr., is Constructing Q. M., U. S. A.

*RUMFORD, ME.—Bids are asked by Charles A. Mixer, Engr., Rumford Falls Power Co., Rumford, until April 14, for the ledge excavation and masonry cradles for 1,000 ft. of 14-ft. penstock; for the relief pipe concrete spill-way; for machinery and building excavations and concrete foundations; for the brick and concrete station building and for the cofferdam and the ledge excavations of the tail race; all for an addition to the present power station. The approximate quantities of the principal items will be: 4,000 cu. yds. ledge excavation, 500 cu. yds. rubble masonry, 1,200 cu. yds. concrete and 112 cu. yds. brick work. Plans and specifications will be ready March 21, and may be seen in the Engineer's office, also in the office of George Burnham, Arch., 120 Exchange St., Portland, Me.

PITTSFIELD, MASS.—Plans have been prepared for enlarging the power-house of the Stanley plant, which will double the output of the plant. Estimated cost, $50,000.

GARDNER, MASS.—The Gardner Electric Light Co. has applied to the State Board of Gas and Electric Light Commissioners for permission to increase its capital stock from $65,000 to $170,000, proceeds of $25,000 to be used to enlarge its plant and distributing system and the remainder to pay off outstanding indebtedness.

COLCHESTER, CONN.—The T. M. Russell Engineering & Supply Co., of Middletown, Conn., has been awarded contract for installing the new electric plant for the Colchester Electric Light Co. The work includes 80 street lamps and about eight miles of wiring, and wiring of residences and stores.

ALBANY, N. Y.—Bids are asked by F. C. Stevens, Supt. of Pub. Wks., until noon, April 7, for the construction of hydro-electric power plant on the Erie Canal at Lock No. 24 at Baldwinsville, and on the Champlain Canal at Lock No. 9 at Smith's, at Lock No. 11 at Comstock, and at Lock No. 12 at Whitehall; and for construction and electrical equipment for utilization of electric current for the operation and lighting of Locks 24, Erie Canal, 1, 2, 7 and 8, Oswego Canal, and 9, 11 and 12 on the Champlain Canal. Engineer's estimate, $180,630.

POUGHKEEPSIE, N. Y.—We are officially advised that contract has been awarded the State Commission in Lunacy to GAYLORD & EITAPENE CO., of Binghamton, N. Y., for power equipment, conduits and piping at the Hudson River State Hospital here at $85,700. Bids were opened on Feb. 16. T. E. McGarr is Secy.

BROOKLYN, N. Y.—We are officially advised that bids will be received about June 1 for equipment of plant of the Edison Electric Illuminating Co., at the foot of Gold St., to include new boiler house and extension of operating room, boiler house to contain 32 650-HP. boilers. G. L. Knight is Designing Engr., 360 Pearl St., Brooklyn.

PHILADELPHIA, PA.—Plans have been prepared by the Chief of the Electrical Bureau, for improving the lighting system in the business district of the city, which call for the installation of 5,370 lamps as compared with 913 now in service in the district bounded by the Delaware and Schuylkill Rivers and Vine and South Sts. Estimated cost of maintaining the new lamps, $471,873. The new system will require 2,685 new posts at cost of $120,825. Under the new system all lamps would be maintained by underground wires.

HOMER CITY, PA.—The Homer City Electric Co., lately incorporated, contemplates the construction of an electric plant here and is negotiating with the Council with a view of furnishing electricity for street lamps. If sufficient encouragement is given the company will install a plant here and furnish electrical service in Homer and vicinity. Capital, $5,000. John M. Landfair is Secy.

DOVER, DEL.—Contract for wiring and electric work for the State Capitol has been awarded to the GARRETT & MILLER CO., of Wilmington.

WADESBORO, N. C.—Plans are being considered for the construction of a hydro-electric power plant on Rock River, 13 miles from here. A dam 500 ft. in length will be built, with submerger power-house. It is expected that about 6,000 HP. can be developed. Estimated cost, about $600,000. Walter E. Brock is interested.

ALBANY, GA.—Announcement has been made that the Albany Power & Mfg. Co. will construct an auxiliary steam plant immediately. The new plant will increase the output of the company from 24,000 HP. to 100,000 HP. Louis Joerissen, of Atlanta, Ga., is Pres. and Mgr.

FORT DADE (Egmont post-office), FLA.—Bids will be received at the office of the Quartermaster, U. S. A., Fort Dade, until April 5 for construction of reinforced concrete guardhouse, including plumbing, wiring and electrical fixtures, and construction of concrete storehouse and oil house. Plans and specifications will be furnished on application, for which a deposit of $5 will be required.

JACKSONVILLE, FLA.—The Board of Bond Trustees is considering a bond issue of about $1,000,000, proceeds to be used for municipal improvements, of which $275,000 may be used for the construction of a new electric light plant. It is proposed to make the new plant the main station and use the present power house for a distributing station.

NEW ORLEANS, LA.—Bids will be received by the New Orleans Railway & Light Co. until March 18 for the construction of a brick and steel building, to be used as a substation at Iberville and Pierce Sts. Specifications are on file at the office of the company. Hugh McCloskey is Pres.

LOUISVILLE, KY.—The Louisville Lighting Co. is making preparations for improvements and additions to its power plant at 14th St. and Broadway. Work will begin soon. Estimated cost, $150,000. D. X. Murphy & Bro., of Louisville, are Archs. F. M. Sackett is Pres.

PERRYSBURG, OHIO.—We are officially advised that the former Perrysburg hydraulic canal will be rebuilt and a modern hydroelectric plant erected. H. A. von Schon is Consulting Engr., Wayne County Savings Bank Bldg., Detroit.

TOLEDO, OHIO.—The erection of a new power-house and equipment, to cost $300,000, was authorized by the Toledo Rail & Light Co. on March 4.

JEFFERSONVILLE, IND.—The United Gas & Electric Co. has purchased a site on which to erect a new receiver. Estimated cost, $27,000. The company contemplates other improvements and installation of machinery, to cost about $50,000.

FORT WAYNE, IND.—The Municipal Electric Light Dept. is in the market for several carloads of pine poles and an installment of wire, to be used in connection with extensions to the plant.

INDIANAPOLIS, IND.—Owing to inequalities in rates for electricity furnished for lighting the buildings under the supervision of the Board of Public Safety, it has been decided to ask for bids for the service. The prices range from 4½ cts. to 12½ cts. per KW.-hour.

CHESANING, MICH.—The Town Council is considering the construction of a hydroelectric power plant to furnish electricity to operate the municipal electric plant. The report submitted by Oliver Dales, Engr., employed to investigate the matter, estimates the cost of the plant at $30,000, which includes the purchase of the Chapman rights in the river, the purchase of equipment and furnishing the village with 25 arc lamps in the business section and 75 tungsten lamps for the residence section. The Commonwealth Power Co. has made a propostion to furnish arc lamps for street lighting at $60 per lamp per year in return for a long-term franchise, and will make other concessions, including the furnishing of electricity to operate the water-works.

CHICAGO, ILL.—Announcement has been made by the Commonwealth Edison Co. of an extension and building project providing for the investment of from $15,000,000 to $20,000,000. A tract of 109 acres has been purchased on the west side of the north branch of the river between Roscoe St. and Addison St., on which to erect new generating stations. One of these stations, and probably two, will be established at once. Samuel Insull is Pres.

EAU CLAIRE, WIS.—Contract for the complete hydraulic equipment for the Red Cedar plant of the Chippewa Valley Ry., Light & Power Co., Eau Claire, has been awarded to the ALLIS-CHALMERS CO., of Milwaukee. It comprises one 3,000-HP. generator unit operating under 48 ft. head, and placed on a hollow dam of the Amburs en Hydraulic Construction Co.'s build, with complete hydraulic governor and 170-HP. exciter unit, also head-gates, trash-racks, etc.

ALBIA, IOWA.—The Southern Iowa Traction Co., lately incorporated in New Jersey, proposes to equip the Centerville & Albia R. R., which was formerly operated as a steam railroad, between Centerville and Albia, for electrical operation. Capital, $300,000. The incorporators are: G. G. Moore, K. Lathrop and S. W. Ladd, of Detroit, Mich., and T. W. Atwood, of Caro, Iowa.

INDEPENDENCE, IOWA.—Contract for repairs and improvements for the municipal electric light and water plants has been awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., of Pittsburg, Pa., at $4,733.

DULUTH, MINN.—Excavation has been completed and construction will shortly be commenced on the power house for the Minnesota Steel Co. It will be 44 × 100 ft., of concrete with steel roof, and will contain two 400-HP. boilers, a 500-KW. generator, a cross compound engine to drive a Nordberg air compressor. The stack will be 175 ft. high.

TROY, KAN.—The city has decided to install an electric lighting system. O. C. Winzer, Mayor, and Henry Calnan are negotiating with the Atchison Ry., Light & Power Co. regarding furnishing electricity to operate the system. It has not yet been decided whether to install a power plant or secure energy from Atchison or St. Joe.

BAXTER SPRINGS, KAN.—The Baxter Springs Electric Light & Water Co. is making arrangements for enlarging its plant to furnish electricity to operate the new electric railway which will extend from Baxter Springs to the lead and zinc mines of Oklahoma. The work will include the installation of a direct-connected engine and an ice plant will also be installed. Dr. Charles M. Jones is Prop.

BEACH, N. DAK.—The Council has granted a franchise to George Dhrysler, of Wadena, Minn., to install an electric light system. A 125-HP. plant, it is understood, will be installed.

ST. LOUIS, MO.—The Independent Packing Co. on March 2 made application to the Building Commissioner for permission to erect a $40,000 power-house on a portion of the property bounded by Tiffany, Chouteau and the Missouri Pacific Ry. tracks.

MURFREESBORO, ARK.—Negotiations are being made between the Whitecliffs Portland Cement Co. and the Pike County Water Co., by which the latter is to furnish the cement company with 2,500 HP. to operate its plant in Little River County, 30 miles from here. The plant of the Pike County Water Co. is to be located on the Little Missouri River, three miles from here. Claudius Jones is Pres.

JOURDANTOWN, TEX.—A company headed by E. M. Tom, of Jourdantown, has been organized here to install an electric light and power plant. Capital, $30,000. F. P. Wallace is Gen. Mgr.

AUSTIN, TEX.—The contract for installing electrical equipment in the Littlefield Building, Austin, Tex., has been awarded to the Standard Electrical Construction Co., of New Orleans, La. The cost of the work is estimated at $15,000.

MARBLE FALLS, TEX.—The Colorado River Power Co., of Marble Falls, having a capital stock of $1,000,000, has filed its charter in the Secretary of State's office. The company will soon have completed a large dam across the Colorado River here at a cost of several hundred thousand dollars and the erection of a hydroelectric plant will soon be started. This proposed plant will have an initial capacity of about 5,000-HP., and provision is made whereby additional water storage can be easily obtained that will afford double the amount of the power of the original plant. The company is preparing to build transmission lines to San Antonio, about 90 miles, to Austin, about 35 miles, to Waco, about 100 miles, and to a number of smaller towns within a radius of 150 miles of here. It has also contracted to furnish electric power for a cotton mill and other industries at Marble Falls. The dam here is 750 ft. long, 50 ft. high and has an 80-ft. base with a 16-ft. crown. It is a sluice dam, with chambers in the interior, and is made of concrete reinforced with steel. The dam was designed and constructed by J. C. Dumont, who is also negotiating with the municipal authorities of Austin for the building of a similar structure across the Colorado at that place. The incorporators of the company are: C. H. Alexander and James O. Wiley, of Dallas, and E. C. Alexander, of Marble Falls.

*FORT SILL, OKLA.—Bids are asked by Capt. David L. Stone, Constr. Q. M., until 10 a. m., April 13, for electric light and power plant and electric lighting system at Fort Sill.

MOUNTAIN VIEW, OKLA.—The city on March 1 voted to issue $20,000 of bonds for the construction of an electric-light plant, $5,000 for extensions to water-works system, and $20,000 for sewer system. Plans have been prepared by the O'Neil Engineering Co., of Dallas, Tex. D. E. McBride is City Clk.

GEORGETOWN, COLO.—The Commonwealth Power & Electric Co., of Georgetown, has had plans prepared for a hydroelectric power station of 7,000 KW. on the Grand River. The construction details are now being worked out, and the matter of turbines, governors, generators, power transmission, etc., will be taken up later.

GOLDEN, COLO.—The Coors Brewing Co. is reconstructing its power plant and installing alternating equipment, including two 100-KW., 440-volt, 3-phase, 60-cycle General Electric turbo-generator sets. The plant supplies electricity for lamps and motors for its various buildings.

LONGMONT, COLO.—The city contemplates the construction of a hydroelectric power plant in connection with the addition to its water-works. It is proposed to locate the plant a few miles north of Lyons at a point where there is a drop of 425 ft. in the city water supply. It is estimated that about 1,000 HP. can be developed on the domestic water supply at this point.

SPOKANE, WASH.—Plans for a large hydraulic power development to produce electric current for operating mines, pumping plants, etc., are being made by the Commonwealth Power & Water Co., of Spokane. One or more stations with an aggregate capacity of 35,000 to 40,000 HP. will be built. Details of equipment have not been considered.

LOS ANGELES, CAL.—The Pacific Light & Power Corporation, backed by H. E. Huntington and capitalized at $40,000,000, on Feb. 28, arranged for the consolidation of the San Bernardino Gas Co., also owned by Mr. Huntington, and its Domestic Gas Co., a $10,000,000 Los Angeles concern. This means the construction of a pipe line from this city to San Bernardino, costing $1,-500,000 and taking nearly a year to complete.

BELL, CAL.—The citizens have petitioned the Los Angeles Gas & Electric Co. to extend its electric and gas service to this town. C. A. Luckenbach is Engr. Construction, Los Angeles.

LONDON, ONT.—The citizens have voted in favor of the by-law appropriating $25,-000 for equipping the London Hospital for the Insane to utilize electricity furnished by the Hydro-Electric Power Commission.

FORT WILLIAM, ONT.—Bids are asked until April 1 by the City Clerk for letting a gas franchise, including construction of plant, mains, etc., and operation.

SALTILLO, MEX.—Another large electric power enterprise for Northern Mexico is said to be spurred. Frank A. Lilliendahl, of Saltillo, promoter of the Coahuila & Pacific R. R., that is now a part of the National Railways of Mexico, has been working on this electric power project for the last three years. It is announced that he now has the financial arrangement closed, a syndicate of New York men having taken hold of the project. The government concession which Mr. Lilliendahl holds for this enterprise provides that the hydroelectric plant shall be erected on the Pilon River, near Montemorelos, State of Nuevo Leon. The initial capacity of the plant will be 15,000 HP., but this will be increased to 100,000 HP. as rapidly as the demand for the electrical energy increases. The chief market for the power will be in Monterey, which is the principal manufacturing and industrial center of Mexico, having a population of about 80,000 people. Electric transmission lines will also be built to Saltillo, Victoria, Linares and a number of other smaller towns. It is 48 miles from the site of the proposed hydroelectric plant to Monterey. The surveys for the plant have been made and construction will soon be started, it is announced.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

NASHUA, N. H.—The Sub-Committee of the Joint Committee of Nashua and Hudson received bids on March 1 as follows, for constructing superstructure Taylors Falls Bridge over Merrimack River: Boston Bridge Works, of Boston, Mass., $38,692; United Construction Co., of Albany, N. Y., $42,919; New England Structural Co., of Boston, $44,000, and Canton Bridge Co., of Albany, N. Y., $46,629.

NEW YORK, N. Y.—The following are the bids received on March 3 at the office of the Park Board for furnishing material and constructing a footbridge at the Falls, near Lorillard Mansion, in Bronx Park: Joseph di Benedetto, 423 East 115th St., $7,565; Henry E. Fox, 81 East 125th St., $8,880; Fox-Hennessy Co., 81 East 125th St., $7,465; Charles E. Fraser & Co., 1328 Broadway, $8,479; Goodwin Construction Co., 30 Church St., $8,970; Hennebique Construction Co., 1170 Broadway, $8,900; Kelly & Kelley, Inc., 45 East 42d St., $8,474; Lafferty & Weir, 723 Lexington Ave., $5,848; Leahy Contracting & Construction Co., 1446 Pro[illegible] Ave., $11,000; John MacArthur, 4376 St[illegible] Ave., Richmond Hill, L. I., $16,894; J. [illegible]testa, 3769 Jerome Ave., $9,900; [illegible] Tompkins, 81 East 125th St., $11,[illegible]; Louis Wechster, 1133 Broadway, $11[illegible]; the Wormser-Goodman Constr. Co., 2 [illegible]or St., $9,475.

CALEDONIA, N. Y.—The contract for constructing a bridge over the Gene[illegible] River has been awarded to UNITED CO[illegible]RUCTION CO., of Albany, for $7,00[illegible] W. C. Place is Town Clerk. Bids were received on March 3.

READING, PA.—The contract for constructing concrete arch in W[illegible]issing Borough has been awarded to RU[illegible]EL & PAXSON, Reading, Pa., at $3,932. A. L. Rhoads is County Controller.

WEST CHESTER, PA.—The Board of Commissioners of Chester County will let the contract soon for constructing two bridges, the first to be iron and cement and constructed over Valley Creek on the Indian King Road, and the second a steel and concrete structure over branch of White Clay Creek on road leading from Landenberg to Chesterville.

BALTIMORE, MD.—The Baltimore & Ohio R. R. Co. has awarded contract to the MARYLAND CONSTRUCTION CO., Baltimore & Ohio Railroad Bldg., Charles and Baltimore Sts., Baltimore, to construct a coal trestle from its main line at City St. and Sinclair Ave. The trestle will be twelve feet high, twelve feet wide and 160 ft. long. Cost, about $4,000. M. A. Long is the company's architect.

AMHERST, VA.—The Lynchburg, Amherst & Northern R. R. Co., H. L. Page, Pres., will erect three steel bridges 100 ft. long.

ELIZABETH CITY, N. C.—The Camren Ferry Co. will construct an iron bridge across the Pasquotank River. The structure will be of steel and wood, with draw (rolling-lift type) 75 ft. in the clear, 600 ft. long, 16 ft. wide, 12 ft. driveway, 4-ft. walkways, 10 ft. above tide level. The company invites plans and specifications. Cost, $10,000.

BEAUFORT, S. C.—Cothran & Cothran, Greenville, S. C., have been retained as engineers to construct the proposed $75,000 steel bridge across the Beaufort River.

SANFORD, FLA.—The city has awarded a contract to GEORGE H. CROFT, Dublin, Ga., for constructing five steel and concrete bridges. One bridge over Mill Creek is to be 30-ft. span; the other four structures are to be of single arches, made of concrete, with abutments of same material.

BAY MINETTE, ALA.—The Baldwin County Commissioners, Judge J. H. H. Smith, Chn., have authorized advertisement of bids for a steel bridge across the Styx River on Gateswood-Dahpne Road. A bridge will be erected across Pine Log Creek, on Stockton-Montgomery Hill Road, and also a draw-bridge over Miflin Creek.

TALLADEGA, ALA.—Bids are asked until April 4 by Talladega County for two steel bridges, one across Choccolocco Creek at Jackson's Shoals, and one over the Southern Railway tracks near the city of Talladega. J. E. Camp is Judge of Probate.

KINDER, LA.—The PEAVY-BURNS LUMBER CO., Shreveport, La., will construct a bridge across the Calcasieu River to cost $30,000. Frank Shutts is Engr.-in-Charge, Lake Charles, La.

HARRISONBURG, LA.—Bids will be received by the Police Jury until April 4 for repair of Bayou Louis Bridge. W. H. Bethard is Secy.

CLEVELAND, OHIO.—Plans for the repair of the Superior and Central viaducts have been completed and in a few days the city will advertise for bids. The work will cost $43,000.

DAWSON, OHIO.—Bids are asked by the Shelby County Commissioners, at Sidney, Ohio, until noon, March 26, for the construction of superstructure for one steel highway swing bridge, length of span 50 ft., roadway 14 ft., over the Miami and Erie Canal, near Dawson, Ohio.

RICHMOND, IND.—Bids are asked by the Wayne County Commissioners until 11 a. m., March 19, for repairing the Chester Bridge in Wayne Township. Demas S. Coe is County Audr.

ROCKVILLE, IND.—See item under Streets and Roads.

BAY CITY, MICH.—The Grand Trunk Railway System, H. G. Kelley, Ch. Engr., Montreal, Que., has asked the City Council for a franchise in certain streets and proposes to construct a bridge across Saginaw River between Tenth and 15th Sts., and to build passenger and freight depots at an expenditure of about $500,000.

ROCKFORD, ILL.—E. C. STOVALL has the contract for the construction of the Seventh Ave. and Tenth Ave. bridges and for the construction of the retaining wall for the Chestnut St. bridge.

MILWAUKEE, WIS.—Charles J. Poetsch, City Engr., is preparing plans and specifications for repairing the 16th St. viaduct. This viaduct was built in 1894 at a cost of $279,000; the cost of proposed repairs will be approximately $145,000. The city of Milwaukee will pay $100,000 and the Milwaukee Electric Ry. & Light Co. will contribute $45,000 for the privilege of using same. Of the total cost of the work $70,000 will be used for repaving the roadway and replacing sidewalks; the length of this viaduct is 4,000 ft. between abutments, and the roadway is 40 ft. and has 10-ft. sidewalks.

ST. PAUL, MINN.—L. W. Rundlett, City Engr., has prepared plans for two bridges to be built here. One will be constructed on Ashland Ave. over the tracks of the C., M. & St. P. Ry., at a cost of $5,200; the other will be built over the Great Northern Ry. on Hamline Ave., costing $2,582.

MINNEAPOLIS, MINN.—Bids will be received until March 21 by the Board of County Commissioners, at Minneapolis, for constructing a concrete and steel bridge, 32 ft. long, with 20-ft. roadway, over Rush Creek at Maple Grove. Frank E. Haycook is County Surv.

TOPEKA, KAN.—The LEAVENWORTH BRIDGE CO. has secured a contract at $8,000 for the construction of the Maple Hill bridge.

MANHATTAN, KAN.—The MIDLAND BRIDGE CO., Kansas City, Mo., has been awarded the contract at $12,040 for the construction of a bridge over Blue Channel. The bridge will be 433 ft. long, in three spans.

MINDEN, NEB.—A contract has been let to H. F. WARD & CO., of Tecumseh, Neb., for the construction of all wooden bridges for the Kearney County for 1910.

DE LEON, TEX.—The Texas Central R. R. Co., H. K. McHARG, Pres., Waco, Tex., will construct a 100-ft. span and five or six girders of different lengths. Ties, timbers, rails, etc., have been purchased.

SAN ANTONIO, TEX.—The City Council has adopted an ordinance providing for construction of a bridge across the San Antonio River, to cost about $10,000.

HOUSTON, TEX.—F. L. Dormant, Consult. Engr., Houston, has submitted two sets of plans to the City Council for a proposed bridge to be constructed across the ship channel on San Jacinto St. One design calls for solid arches with spandrel walls, and the other for six ribbed arches, with sidewalks of cantilever type. The structure will be 334 ft. long, 70 ft. wide, with 50-ft. roadway, and two 10-ft. sidewalks. The roadway will be paved with vitrified brick and sidewalks constructed of cement. Reinforced concrete retaining walls will rest on reinforced concrete piles. The movable portion of the bridge will weigh 1,200,000 pounds. Specifications call for a structure that can be opened in 1½ minutes by electric motors. The lifts are to be paved with creosoted blocks.

ALTAIR, TEX.—The San Antonio & Aransas Pass Ry. Co., J. S. Peter, Gen. Mgr., San Antonio, Tex., has awarded contract to WEBER-DUDLEE CO., of Houston, Tex., for foundations of the proposed bridge across the Colorado River; VIRGINIA BRIDGE & IRON CO., Roanoke, Va., for steel work, and GULF CONCRETE CONSTRUCTION CO., Houston, Tex., for placing concrete piling. The bridge will be a pin-connected through-span structure. The span will be 276 ft. long.

PURCELL, OKLA.—The Purcell-Lexington Bridge Co., W. B. Blanchard, Pres., and Tom Halsell, Secy., is reported organized to construct a steel bridge over the South Canadian River, between Purcell and Lexington. The structure to be about 2,630 ft. long, with 15 spans.

SACRAMENTO, CAL.—Civic bodies of this city have been notified by Capt. T. H. Jackson, U. S. Engr., to submit any statement regarding the construction of the proposed bridge of Northern Electric Ry. Co. across the Sacramento River at M St., at once.

BUILDINGS.

(* *denotes that this work is advertised in Engineering News.*)

FORT WILLIAMS (Cape Cottage post-office), ME.—Bids are asked by Capt. C. F. Humphrey, Jr., Constr. Q. M., 655 Congress St., Portland, Me., until 10 a. m., April 2, for the construction, plumbing, heating and electric lighting of the following buildings at Fort Williams, Me.: One administration building (brick), one guardhouse (brick), two sets of field officers' quarters (brick), two double sets captains' quarters (concrete), one double lieutenants' quarters (brick), one bakery (brick), one quartermaster's storehouse (brick).

PITTSFIELD, MASS.—We are officially advised that JOHN J. TURNER & SONS, of Amsterdam, N. Y., have been awarded a contract to build a reinforced-concrete building, 160 × 83 ft., at Pittsfield, for the General Electric Co. The structure will have four stories, will be of reinforced-concrete construction throughout, with metal window frames and sash.

NEW BRITAIN, CONN.—The Building Committee of the New Britain General Hospital, F. G. Platt, Chn., has approved the plans of W. H. Cadwell, Arch., 213 Main St., New Britain, for the proposed operating building. Plans will be ready for contractors to figure on within a few days.

The plans for the Smalley School addition have been approved by the Building Committee. E. Allen Moore, Chn.

NEW YORK, N. Y.—Bids are asked by the Park Board until 3 p. m., March 24, for completing the contract abandoned by the Crescent Construction Co., for all labor and materials required for the alteration of the Pergola Building in DeWitt Clinton Park, bounded by Eleventh Ave., Twelfth Ave., West 42d and West 44th Sts., Boro. of Manhattan.

The southwest corner of Broadway and Park Pl. has been bought by F. W. Woolworth, 280 Broadway, who will erect a 20-story office building on the site. The sale involved about $2,000,000 and includes the building on the corner, formerly the home of the Broadway Bank and owned by the Mercantile National Bank, the adjoining buildings, at 233 and 235 Broadway, owned by the Trenor L. Park estate and George Noakes, respectively, and the two buildings in the rear, at 6 and 8 Park Pl. owned by John J. McCullough.

Two 6-story apartment houses, each 100 ft. front and to contain suites for 58 and 60 families, respectively, to be built for the John M. Linck Construction Co., from designs by Charles Kroyenborg, Arch., on 181st St., east of Fort Washington Ave., at a cost of $200,000.

Plans have been filed for enlarging the nurses' home of the Post-Graduate Hospital and Medical School, at Second Ave. and 26th St., by an annex of eight stories, and adding three new stories to the present home to harmonize with the addition. The enlargement will be made from designs by James B. Baker, Arch., 156 Fifth Ave., and will provide for a new central entrance, with an ornamental porch. The annex will cost $80,000.

NEW YORK, N. Y.—A 12-story loft and office building is to be erected for the Flemish Realty Co., from designs by Rouse & Goldstone, Archs., 12 West 32d St., at 17 to 21 East 22d St. The structure will be of brick, granite, limestone and terra cotta. It will be 91.8 ft. front and 84.3 ft. deep and will cost $400,000.

Plans have been filed for a 12-story loft building, to be erected at 153 to 157 West 23d St. It will cost $215,000. It will have a frontage of 60 ft. and will be 88.9 ft. deep. The facade will be of ornamental brick finished with polished granite and limestone. The plans were made by Schwartz & Gross, Archs., 347 Fifth Ave.

Plans have been drawn by Maynicke & Franke, 298 Fifth Ave., whereby Stern Bros.' store will be made larger and taller, through the addition of a 12-story annex to the east. The plans call for the improvement of the plot at 9 to 15 West 22d St., and include the 12-story building now occupied by the old annex, which runs through to 23d St. These additions will give the new store a frontage of 288.6 ft. on 22d St. and 223.5 ft. on 23d St.

NEW YORK, N. Y.—We are officially advised that plans have been filed for two 6-story brick apartment houses, each 87½ ft. front, to contain 25 suites each, and to be built for the King Construction Co., from designs by John Hauser, Arch., 358 West 125th St., on 187th St., west of Amsterdam Ave. Cost, $200,000.

Goldwin, Starrett & Van Vleck, Archs., 103 Park Ave., have filed plans for a 11-story fireproof dry goods warehouse to be erected for Mills & Gibb, at the northwest corner of Fourth Ave. and 22d St., to replace the old Fourth Ave. Presbyterian Church. The building is to be of a type of Renaissance architecture, of brick, trimmed with granite, limestone and terra cotta, and finished with tall bays at the two lowest and two topmost stories, the upper facade being offset with decorative cornices. The building will have an avenue frontage of 99.8 ft. It will cost $575,000.

Maximilian Zipkes, Arch., 353 Fifth Ave., has been commissioned to draw plans for a 12-story loft building to be erected on the plot recently sold to A. & S. Gordon at 118 and 120 West 27th St. The building will cost about $225,000.

Plans have been filed for two 5-story flat houses, to be built from designs by George R. Buell, Arch., on 170th St., west of Fort Washington Ave., for the Cliff Construction Co., John Lever, Pres. Each will be 50 ft. front and 83 ft. deep, and will contain suites for 21 families. The buildings will cost $80,000.

Plans have been filed for a 7-story cold storage warehouse, to be built at a cost of $250,000, from designs by L. Levy, Arch., at the southeast corner of First Ave. and 46th St., for the Schwarzschild & Sulzberger Co., with a frontage of 100.7½ ft. and a depth of 162.1 ft.

ALBANY, N. Y.—FEENEY & SHEEHAN, 164 Montgomery St., Albany, N. Y., have been awarded the contract for the construction of a 5-story fireproof building for the St. Ann's School of Industry at the corner of Central Ave. and Manning Boulevard. The cost will approximate $150,000. Marshall L. Emery, Drislane Bldg., Albany, N. Y., is Arch. The institution is owned by a Roman Catholic order.

FORT NIAGARA (Youngstown post-office), N. Y.—Bids are asked by Lt. E. H. Wagner, Fort Niagara, until 2 p. m., April 6, for constructing, plumbing, heating and wiring two double sets company officers' quarters.

SCHENECTADY, N. Y.—We are officially advised that JOHN J. TURNER & SONS, of Amsterdam, N. Y., have been awarded a contract to erect a 5-story building, 366 × 73 ft., of reinforced concrete and fireproof, at Schenectady.

PRINCETON, N. J.—Edgar V. Seeler, Arch., Real Estate Trust Bldg., Philadelphia, Pa., is planning a 3-story house, to be built in Princeton, for the Cannon Club. It will measure 57 × 90 ft. and cost $50,000.

PITTSBURG, PA.—The Central Board of Education has approved the High School Building Committee's recommendation that Rutan & Russell, Magee Bldg., be chosen as architects to build the proposed High School on Forbes Ave. Prof. Warren P. Laird recommended the selection. A committee of nine was authorized to look into the question of locating a branch High School in Homewood and a similar committee on a High School in the West End.

ERIE, PA.—Bids are asked by W. J. Flynn, Secy. Bd. of Education, until 3 p. m., March 22, for the removal of School Building No. 7, 21st and Sassafras Sts., and the erection and completion, in its place, of a 3-story fireproof building.

PHILADELPHIA, PA.—Plans for the erection of a $100,000 apartment house at 44th and Sansom Sts., for Oliver P. Fisher, are being prepared by E. Allen Wilson, Arch., Land Title Bldg. It will contain 26 suites.

Plans are in preparation by Charles Barton Keen, Baily Bldg., for a 3-story stone, plaster finished house, and a 2-story garage and stable, to be built on Darby Road, Radnor, for John Sinnot, to cost about $50,000. The Spanish style has been chosen for the buildings.

John R. Wiggins & Co., Heed Bldg., have submitted the lowest bid, $102,000, for the erection of a police, patrol and fire station at 319-25 Race St. The same firm is also the lowest bidder for the rebuilding of the truck house at 16th and Catharine Sts., where the improvements will cost $13,000.

The contract has been awarded to WILLIAM J. McSHANE by George I. Lovatt, Arch., 416 Walnut St., for a school and convent building, 50 × 105 ft., for Holy Cross Catholic Church, at Mt. Airy Ave. and Boyer St. The cost will be $50,000.

George B. Bond has invited estimates for 100 2-story dwellings, which he will erect at 65th St. and Chester Ave., at a cost of $200,000.

BALTIMORE, MD.—Bids are asked by the Board of Awards until 11 a. m., March 23, for the erection and completion of a school building at Carroll and Wildemere Aves., to be known as No. 51 School. Edward D. Preston is Inspector of Buildings.

FORT DADE (Egmont post-office), FLA.—Bids are asked by the Constructing Q. M., Fort Dade, until 10 a. m., April 5, for constructing (of reinforced concrete), plumbing, wiring, including electrical fixtures of guardhouse; constructing (of concrete) of storehouse and oil house.

NEW ORLEANS, LA.—The city of New Orleans intends to build an art museum, to cost about $125,000, and architects are invited to submit plans. These will be received until July 1 at the office of F. A. Lelong, 518 Iberville St., New Orleans. Architects are invited to write for instructions.

COLUMBUS, OHIO.—Bids for the construction of the Heyl Ave. School building, in Columbus, were received recently by the Board of Education as follows: Adam Pitts, materials $63,000, labor $30,000, total $93,000; John H. Hina, materials $60,000, labor $43,552, total $103,552; Francis Bros., total bid $95,142; George A. Abernethy, total bid $94,600; W. M. Trout, total bid $98,633; Nichol & Carr, materials $51,975, labor $51,975, total $103,950; Patrick Shehanan, materials $59,759, labor $40,000, total, $99,759; Evans & Co., materials $69,000, labor $30,950, total $99,950; Schilling Bros. Co., materials $69,220, labor $34,509, total, $103,529; D. W. McGrath, materials $47,885, labor $40,000, total $87,885.

Bids for the construction of the school building to be erected on West Broad St. were opened by the Board of Education at the same time as follows: Patrick Shanahan, whole bid $99,980; Robert Evans & Co., materials $69,000, labor $30,150, total $99,750; D. W. McGrath, materials $48,783, labor $40,000, total $88,783; Adam Pitts, materials $63,674, labor $30,000, total $93,674; John H. Hina, materials $60,000, labor $43,000, total $103,000; George A. Abernethy, total bid $96,468; Francis Bros. Co., total bid $95,443; W. M. Trout, total bid $98,693.60; W. W. Watson, total bid $105,701. The Building Committee will investigate the bids. The successful bidder will be announced soon. D. W. McGrath is low for each building.

Joseph Dauben, Arch., 222 Eberly St., is preparing plans for a 6-story business block, 94 × 110 ft., to be built on the corner of Mound and Fourth Sts., by the Bruck estate. Bids will be invited soon.

COLUMBUS, OHIO.—The Building Committe of York Lodge, F. & A. M., has decided to erect a $60,000 temple, to be located at Smith Pl. and High St. The building will be four stories high and will include a gymnasium, swimming pool, billiard room, bowling alleys and a banquet room in addition to lodge rooms. Plans are being prepared by several architects to be passed upon by the Building Committee.

Bids will be received by the Board of Commissioners of Franklin County, at Columbus, until April 8, for the construction of a tuberculosis hospital for the county. The sum of $80,000 has been voted for the structure. Howard & Merriam, Capitol Trust Bldg., are Archs., and John Scott is Clerk of the Board of County Comrs.

MISHAWAKA, IND.—Fred W. Keller, of South Bend, will soon ask for bids for the construction of a 3-story brick store and office building on Second and Hill Sts.

LAPORTE, IND.—The local lodge of Elks has ordered plans on which to ask for bids for the erection of a club house.

CONNERSVILLE, IND.—W. H. Garnes, a local architect, has been employed to draw plans for the erection of a K. of P. building and lodge hall, to be erected on Central Ave. The building will be 100 × 120 ft., three stories, of brick and stone.

NEW ALBANY, IND.—Bonds amounting to $60,000 have been issued to erect a high school building. The entire cost is placed at $100,000. The School Board will ask for bids when plans are completed.

TERRE HAUTE, IND.—The Ratcliff Realty Co. is preparing to build a 3-story brick and stone office building on Fifth St., West Terre Haute.

BAY CITY, MICH.—See item under Bridges.

WAUWATOSA, WIS.—H. P. Schnetzky & Son, Archs., 1318 Cedar St., Milwaukee, Wis., are preparing plans for a $50,000 building for the Lutheran Home for Aged at Wauwatosa, Milwaukee County, to be three stories high, of solid brick construction. Work will be begun about April 1.

FORT DODGE, IOWA.—The following bids have been received for the general construction of the Y. M. C. A. building on First Ave. North: JENSEN CONSTRUCTION CO., Fort Dodge, $46,047 (awarded contract); La Crosse Construction Co., La Crosse, Wis., $47,297; W. J. Zitterell, Webster City, $50,625; Schmidt Bros. Construction Co., Chicago, $50,650; C. E. Atkinson, Webster City, $50,799. The FORT DODGE HEATING & PLUMBING CO. secured the contract for the heating and plumbing on a bid of $8,775.

ALBERT LEA, MINN.—Chandler & Park, Archs., 400 Main St., Racine, Wis., will prepare plans for the erection of a modern school building, 235 ft. front, estimated to cost $100,000. There will be 14 grade rooms.

DULUTH, MINN.—At the annual conference of the Swedish Lutheran churches it was decided to erect an orphanage here at a cost of about $60,000. Rev. F. A. Lindholm, Secy., Lafayette, Minn.

MINNEAPOLIS, MINN.—On plans drawn by Bertrand & Chamberlin, Archs., 616 Bank of Commerce Bldg., E. S. Atkinson will erect a 4-story store building at the rear of his store on Nicollet Ave. and Seventh St. It will be 44 × 100 ft., of reinforced concrete, with brick exterior, and will be built sufficiently strong so that ten additional stories can be added later. It will have hardwood interior finish and floors, plate glass, elevators, steam heat, plumbing, electric wiring, gas. JAMES LECK, 1311 South Seventh St., has been awarded the contract. Cost, $50,000.

Plans are under way for the construction of coliseum on a site near the parade. Sketches for the proposed building have been drawn by Chicago architects. One plan contemplates the erection of a building, 400 × 207 ft., of poured concrete with cement floor covered with wood and a truss roof. Seats are to be arranged in sections so that they can be raised intact to the ceiling and leave an open space for exhibitions. The balcony is to be 20 ft. above the level of the main floor, so that when the building is used for convention purposes the seats will slope from the top of the gallery to the stage, affording a clear view of the platform from all parts of the building. The proposed hall would seat 8,000 and would cost $100,000. It is planned to have a board motorcycle track with baseball grounds inside to adjoin the coliseum. Walter R. Wilmot, Mgr. of the Minneapolis Automobile Show Association, is interested in the proposition.

WICHITA, KAN.—Bids are asked until March 23, by William Sence, City Clerk, for constructing an auditorium. The Commissioners have accepted the plans drawn by Richards, McCarty & Bulford, The Ruggery, Columbus, Ohio, and several additional sets of plans will be drawn for the use of the competitive bidders in preparing their bids. The maximum cost of the building will be $150,000.

COLUMBUS, NEB.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., April 14, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Columbus.

GRAND FORKS, N. DAK.—Joseph Bell De Remer, Arch., Clifford Annex, is preparing plans for a church building for the Presbyterian congregation on Fifth St., to cost $60,000.

*ENID, OKLA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., April 27, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office and court-house at Enid, Okla.

LAWTON, OKLA.—The lowest bid for the contract to erect a new Indian school building at Lawton was submitted on March 7 by McHenry, Beatty & Co., of East Liverpool, Ohio. Their bid was for $41,975. The only other bid submitted was for $45,200, by the Newport Construction Co., of Newport News, Va. Bids were opened at the Interior Department.

LAKEVIEW, ORE.—We are officially advised that the city of Lakeview has voted a bond issue of $40,000 for the erection of a high school building the coming summer. B. Daly is Chn. of the Bd. of Education.

LOS ANGELES, CAL.—The congregation of First German Methodist Church has accepted plans prepared by A. R. Walker for building to be erected at Fifth and Olive Sts. Auditorium will have seating capacity of 230. The church will cost about $70,000.

The Board of Education has accepted the bid of J. V. McNEIL for construction of Polytechnic High School Annex at a cost of $83,443. It will be a 3-story reinforced-concrete building. CROWELL & SUTTON received contract for plumbing.

Announcement is made that construction will be begun in 90 days, at the southwest corner of Broadway and Second Sts., of a 10-story $350,000 office building by the Broadway Investment Co., represented by C. Wesley Roberts. The company has purchased from Dr. J. H. Martindale, for $70,000, a lot in West Second St., adjoining its corner property. This gives the company a 50-ft. frontage in Broadway and a depth of 165 ft. in Second St., which will be the dimensions of the building. The purpose to erect the building was made public some time ago, and financial arrangements perfected, preparations for building having been delayed until the acquirement of the lot just purchased. It is proposed to arrange the building especially for the use of attorneys. The owners will provide a $25,000 law library for free use by tenants.

TORONTO, ONT.—The Provincial Government has purchased from the School Board, at $90,000, a site on Bloor St. East, for a residence for the Lieutenant-Governor.

LONDON, ONT.—The Denton property on Queens Ave. has been purchased by the Masons and a temple will be erected at once.

WINNIPEG, MAN.—A 14-story hotel will be erected here in connection with the Walker Theater, by the Selkirk Hotel Co., which has been incorporated with 1,250,000 capital.

The city is applying to the Provincial Legislature for authority to raise $500,000 for hospital and morgue purposes.

Plans have been prepared by Samuel Hooper, Provincial Arch., for alterations to the parliament buildings, costing $400,000.

WINNIPEG, MAN.—See items under Canadian Pacific Ry. in "Railways" column.

SASKATOON, SASK.—Bids are asked by Walter C. Murray, Pres. University of Saskatchewan, until March 21, for the erection of the college building, students' residence, power-house, live stock pavilion, agricultural engineering building, on the University Grounds in Saskatoon. Plans and specifications may be seen at the office of the University, Saskatoon, Sask., or at the office of the architects, David R. Brown and Hugh Vallance, Canada Life Bldg., Montreal, Que., and at the rooms of the Builders' Exchange, Winnipeg, Man.

WATER-SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

RUSSELL, MASS.—The citizens on Feb. 28 voted to construct water-works. Durkie, White & Towne, of Springfield, are Engrs.

WATERBURY, CONN.—Bids were opened on March 1 by the city for laying a 24-in. pipe line at Wigwam reservoir. Contract has been awarded to S. CAMOIA, 123 Richmond St., Boston, Mass., at the following prices: 30 sq. yds. chopping and clearing, 30 cts.; 7,000 cu. yds. earth excavation, 50 cts.; 200 cu. yds. rock excavation, $4; 30 lin. ft. 8-in. pipe, 40 cts.; 8,820 lin. ft. 24-in. pipe, 60 cts.; 300 lin. ft. 4-in. tile drain, 25 cts.; 40 cu. yds. rubble stone masonry, $6; 17 cu. yds. brick masonry, $16; 45 cu. yds. concrete masonry, $9; 9 cu. yds. box culvert masonry laid in cement, $8; 30 lin. ft. vitrified tile pipe, 12-in., 50 cts.; 30 lin. ft. vitrified tile pipe, 18-in., 75 cts.; 44 lin. ft. vitrified tile pipe, 24-in., $1; 100 cu. yds. dry retaining walls, $6; 200 sq. yds. stone paving, $1; 300 cu. yds. slope walls, $2; 47 cu. ft. cut stone coping, $2; 300 cu. yds. gravel lining, $1; 300 cu. yds. loose stone and riprap, $1; bailing and draining, $500; testing pipes under pressure, $300; 800 cu. yds. embankment, 30 cts.; 20 cuts cutting 24-in. pipe, $3.50, etc.; total, $14,178. Other bids were: Field, Barker & Underwood, Inc., 718 Arcade Bldg., Philadelphia, Pa., $20,256; Antonia Lambo and P. Ciminiera, 642 Bank St., Waterbury, $14,849; Henry Spinach Construction Co., 216 Lounsbury St., Waterbury, $23,933; Fred T. Ley & Co., Inc., 95 Bank St., Waterbury, $23,597. R. A. Cairns is City Engr.

BUFFALO, N. Y.—The following contracts, it is reported, have been awarded for the equipment for the new water-works pumping station: HOLLY MFG. CO., Roberts Ave. and Clinton St., Buffalo, at $674,760, for the five pumps; HEINE SAFETY BOILER CO., Pennsylvania Bldg., Philadelphia, Pa., at $155,500, for boilers; HARTLETT-SNOW CO., Cleveland, Ohio, at $32,750, for coal and ash conveying machinery; WHITE FOUNDRY CO., at $9,900, for 30-ton electric crane; DEAN STEAM PUMP CO., 898 Ellicott Sq., Buffalo, at $24,330, for feed pump. F. G. Ward is Comr. Pub. Wks. Noted in March 3.

UTICA, N. Y.—Bids will be received by T. E. McGarr, Secy. State Commission in Lunacy, Albany, until March 23 for water piping for fire protection at the Utica State Hospital. Frank B. Ware is State Arch., Albany.

FULTON, N. Y.—Bids will be received until March 23 by the Board of Public Works, J. A. Foster, Pres., for 1,900 ⅝-in. and 100 ¾-in. water meters, standard disk type.

*NEW YORK, N. Y.—Contract No. 41, for furnishing and installing 20 5 × 15-ft. sluice gates, 20 operating mechanisms, eight 66-in. stop-disc frames, four 66-in. stop-discs and three sets of drive-shafting for various structures along the line of the Catskill Aqueduct, at Mount Vernon and Brown's Station, has been awarded to the OGDEN IRON & STEEL CO., 147 Cedar St., New York, by the Board of Water Supply, at $90,670. Bids opened on Feb. 15.

READING, PA.—Bids will be received by the Board of Water Commissioners until 7.30 p. m., March 22 for c.-i. pipes and specials, c.-i. gate boxes, laying supply pipe from Penn St. reservoirs to Eighth and Penn Sts.; scrap iron removal and building high-service pumping station.

FREDERICK, MD.—The Legislature has authorized the city to issue $30,000 of bonds for improvements to the water-works.

NORFOLK, VA.—The city has awarded contract at $3,747 to BAKER & BRINKLEY, of Norfolk, for erecting the pumping station on Colley Ave.

T. B. Dornin, Ch. Engr. Water Dept., is preparing plans and specifications for a complete revision of the present system of water mains. Estimated cost, $250,000.

FAIRMONT, W. VA.—The City Council has passed the ordinance authorizing the issue of $100,000 of bonds for improvement of water-works.

WHEELING, W. VA.—The Board of Control on March 7 awarded contract for two 20-ton cranes to be installed at the water-works to the T. H. WYCKOFF CO., of Detroit, Mich., at $5,406.

ANDREWS, N. C.—The city has voted $20,000 of bonds to complete water-works and electric-light system. H. N. Wells is Mayor.

EDISON, GA.—The city has engaged J. B. McCrary & Co., Atlanta, Ga., to prepare plans for and construct water-works. Bonds for $17,000 has been voted. C. J. Jenkins is Mayor.

WRIGHTSVILLE, GA.—The city will construct water-works for which $25,000 of bonds are available.

ATLANTA, GA.—The Board of Water Commissioners has awarded to BABCOCK & WILCOX, of Atlanta, contract for a new boiler for pumping station No. 2 at $4,000.

MILTON, FLA.—The city has engaged the Solomon-Norcross Co., 1622 Candler Bldg., Atlanta, Ga., to prepare plans for the construction of water-works.

GADSDEN, ALA.—The city has engaged Hazlehurst & Anderson, Candler Bldg., Atlanta, Ga., to prepare plans for water-works improvements, plans to include the reconstruction of station building, installation of filter, boiler, pumps, etc., with construction of concrete reservoir, 200 × 50 × 12 ft. Estimated cost of reservoir, $12,000.

*MERIDIAN, MISS.—Bids are asked by the Water Commission of the city of Meridian until April 5 for constructing 8,500 ft. of 24-in. reinforced-concrete conduit. William F. Wilcox is Gen. Mgr.

VICKSBURG, MISS.—We are officially advised that the SOUTHERN PAVING & CONSTRUCTION CO. has been awarded contract for laying water mains in Drummond, Cherry, Walnut and Harris Sts., at $19,560. The work consists of furnishing and laying pipe, specials, valves, valve boxes and house services. C. R. Twiss is City Engr.

*CINCINNATI, OHIO.—Bids will be received by Lieut. Col. J. G. Warren, Corps Engrs., U. S. A., until 2 p. m., March 28 for furnishing and installing a water system at Dam 37, Ohio River.

HAMILTON, OHIO.—Bids will be received by the Department of Public Service until noon March 22 for furnishing 400, more or less, ⅝-in. disk water meters for the needs of the Hamilton city water-works for one year from date of award of contract. meters to be shipped as needed. C. M. Robertson is Clk.

FORT WAYNE (Detroit post-office), MICH.—Contract for extension of water mains and construction of meter wells at Fort Wayne has been awarded to the WOLVERINE CONSTRUCTION CO., of Detroit, at $3,640.

GRAND RAPIDS, MICH.—The Pure Water Commission has accepted the report of Hering & Fuller, 170 Broadway, New York. The report is said to recommend the following: Intake, 48-in. pipe from river to low-lift pumping station on Canal St. side, $6,000; low-lift pumping station, to include four motor-driven centrifugal pumps, each of a nominal capacity of 8,000,000 gallons per 24 hours, the pumps to be electrically driven from generators in the present combined pumping and lighting plants, $21,000; settling and coagulating basins, for filtration without softening open concrete basins in four units of an aggregate capacity of 5,500,000 gallons, $67,000; reaction chamber for softening, where water would be thoroughly mixed and kept flowing at a high velocity for about one hour to have a nominal capacity of 1,000,000 gallons, $40,000; filters and appurtenances, the plant proper to consist of 5,760 sq. ft. of filter surface divided into at least eight units, with storage room for chemicals and laboratories, offices and the preparation and application of the chemicals; a head house with a floor area of 9,000 sq. ft. and 3,500 sq. ft. for operating galleries for the filters, $115,000; clear water basin, concrete and 48-in. in diameter, to deliver to the pump well at the present pumping station the water ready for circulation through the mains, $39,000; outside piping, $37,000, and clear water conduit, $25,000. Total, $350,000. If softening works are omitted, $300,000.

CHICAGO HEIGHTS, ILL.—New bids for the construction of the proposed new pumping equipment, to include four deep-well pumps, two service pumps, transformers, switchboard and a drilled well, will not be asked until about April 1. W. E. Lennertz is City Clk.

MADISON, WIS.—Bids will be received until April 5 by the Capitol Commission for furnishing material and installing water mains in the Capitol Park and in grounds of the heat, light and power plant, requiring about 200 tons c.-i. water pipe, 4 to 10-in., and about 70 hydrants. Lew F. Porter is Secy.

MILFORD, IOWA.—Contract for the construction of water-works, bids opened on Feb. 28, has been awarded to the DES MOINES BRIDGE & IRON CO., of Des Moines, at $9,356, exclusive of well, pump house and machinery. Charles P. Chase, of Clinton, is Engr.

*BURLINGTON, IOWA.—The bids received on Feb. 17 for Sections 2 and 3 of the Des Moines County Drainage District No. 1 pumping plant were rejected and new bids will be received by the Supervisors of Des Moines County Drainage District No. 1 at Burlington, until 2 p. m., March 29, for furnishing and erecting complete a brick and concrete pumping plant building, together with all excavating and filling, and a 2-story brick veneered engineer's residence. The Harman Engineering Co., 120 Fredonia Ave., Peoria, is Engr. The bids received on Feb. 17 were $30,000 and $52,000.

RUSSELL, KAN.—Bids will be received by the Water and Light Committee until March 18 for the construction of dam for the proposed water-works. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

HEBRON, NEB.—Contract for furnishing material and improving water-works, bids opened on Feb. 18, has been awarded to LANG & BROWITT, of University Place, Neb., at $3,717.

SHOSHONI, WYO. — The AMERICAN LIGHT & WATER CO., Kansas City, Mo., has secured contract for the construction of water-works here, at $41,830.

GREAT FALLS, MONT.—Bids will be received by the City Clerk until March 21 for two electrically driven centrifugal pumps, to be installed at the pumping station, each to have a daily capacity of 2,000,000 gallons.

VANDALIA, MO.—W. C. JUCKSCH, Times Bldg., St. Louis, Mo., has secured contract for constructing water-works complete at $16,120, and a sewer system complete at $7,660. Bids were opened on Feb. 24. The Fuller-Coult Co., are Engrs., Chemical Bldg., St. Louis.

GAINESVILLE, TEX.—The City Council has voted to purchase the Gainesville water-works for $92,000 and expend $40,000 for installation of machinery and extension of mains.

DALLAS, TEX.—Bids were opened by the City Commissioners on March 4 for sinking an artesian well. R. H. Dearing bid $8.75 per ft., the city to furnish steam and water, or $9.85 per ft., to furnish steam and water. C. L. Witherspoon bid $24,000, to furnish steam and water, or $8 a ft., the city to furnish steam and water. Both bids were rejected.

DALLAS, TEX.—Bids for constructing the foundation for the pumping station, building the dam, spillway and other appurtenances at the White Rocks were received on Feb. 28. By action of the Board of City Commissioners, March 7, the contract for constructing the White Rock dam and spillway was awarded to the FRED. A. JONES CO., of Dallas, on a bid of $253,070. Other bids were: Texas Building Co., Fort Worth, Tex., $250,271; Fred. A. Jones Co., $253,070; W. W. Cook & Co., Junction City, Kan., $300,532; Scott, Hannon & Co., St. Louis, Mo., $285,203; A. D. McCord, Dallas, $283,194; John C. Underwood, Houston, Tex., $300,804.

MOUNTAIN VIEW, OKLA.—See item under Light and Power Plants.

SAPULPA, OKLA.—Goodwin & Harper, of Kansas City, Mo., are preparing plans for the construction of water-works. Estimated cost, $250,000.

CENTER, COLO.—Bids will be received by the Directors of the San Luis Valley Irrigation district, Frank G. Sylvester, Pres., until March 25 for the construction of a portion of Rio Grande reservoir in Hinsdale County.

CIMARRON, N. MEX.—The Colfax County Commissioners on application of O. J. Roberts, Atty., has granted to H. H. Webster, Jr., of Cimarron, a franchise to construct a water-works system to supply Cimarron with water for domestic and public purposes.

TACOMA, WASH.—The city is planning to erect a standpipe of 500,000 gallons capacity. W. C. Raleigh is City Engr.

OREGON CITY, ORE.—Increase of 500,000 gallons daily in the filtration capacity of the water plant has been determined upon, and an order has been placed for the installation of another filter unit, which will give the plant a daily capacity of 2,000,000 gallons.

M. SISENVINE, of San Francisco, Cal., has secured contract for installing a filter unit at the water-works at about $4,000.

BAKER CITY, ORE.—The cost of the new pipe line from Salmon Creek to the settling tank, with the construction of parallel line and twin reservoir, is estimated by the City Engineer at $200,000. Of this amount the replacing of the Auburn canal flume with a concrete pipe will cost $109,000, the construction of the twin line from the settling tank to Baker City will cost $80,000, and the building of another reservoir $12,000.

LOS ANGELES, CAL.—The Aqueduct Department, William Mulholland, Ch. Engr., 1400 Union Trust Bldg., will soon let contract for boring eleven artesian wells along the aqueduct.

SAN FRANCISCO, CAL.—Contract for the steel work of the Second and Townsend St. pumping station of the fire protection system has been awarded by the Board of Public Works to the DYER BROS., at $60,000.

CALDWELL, IDAHO.—The citizens on Feb. 21 voted to issue $50,000 of bonds for water-works improvements. F. H. Richardson, of Caldwell, is Engr.

TORONTO, ONT.—The Board of Control on Feb. 25 awarded contract for c.-i. piping to the STAVELEY COAL & IRON CO., of Chesterfield, England, at $12,479. C. H. Rust is City Engr.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

ALBANY, N. Y.—The Board of Contract and Supply on March 7 decided to invite bids for the construction of a large sewer in the property lying north of Western Ave., between West Lawrence St. and Ontario St. The sewer is to run through property that has recently been acquired by the city for the purpose and the understanding is now that the work is to be done this spring and summer. In all probability a concrete sewer will be built. The specifications will be ready shortly.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., March 21, for constructing a concrete sewer and appurtenances north of Western Ave., from Ontario St. to West Lawrence St.; for constructing a 12-in. vitrified stoneware pipe sewer under sidewalk of Manning Boulevard, from Washington Ave. to Lancaster St.; for constructing a 12-in. vitrified stoneware pipe sewer in Myrtle Ave., from Quail to Ontario St., and for constructing a 12-in. vitrified stoneware pipe sewer in Putnam St., from Second Ave., southerly, a distance of 500 ft. Isidore Wachsman is Secy. of the Bd.; Walter Mellus is City Engr.

NEW YORK, N. Y.—Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, March 29, for constructing temporary sewers in Richmond.

NEW YORK, N. Y.—Bids are asked by Cyrus C. Miller, Pres. Boro. of The Bronx, until 11 a. m., March 24, for constructing sewers and appurtenances in West 178th St., between Harlem River and Sedgwick Ave., and in Burnside Ave., between Sedgwick Ave. and the existing sewer in Aqueduct Ave., with branches in Cedar Ave., between Sedgwick Ave. and the summit north of West 180th St; in 177th St., between Cedar Ave. and the Putnam Division of the New York Central & Hudson River R. R.; in Loring Pl., between Burnside Ave. and West 180th St., and in Andrews Ave., between Burnside Ave. and West 180th St.

*COMSTOCK, N. Y.—Bids are asked by C. V. Collins, Supt. of State Prisons, Albany, until noon, of April 5, for the construction of a sewage disposal system for the Great Meadow Prison, at Comstock, N. Y. F. B. Ware is State Arch., Albany.

ROCHESTER, N. Y.—E. A. Fisher, City Engr., has presented to the State Health Department, Albany, plans for disposal of the sewerage. The work involves piping of the city sewage from mouth of East side trunk sewer in the lower river, through a conduit to the banks of the lake, where it will be screened and then discharged into the lake, 7,000 ft. from shore, in a depth of 45 ft. of water. As soon as official sanction is obtained the work will start. Ultimately a bond issue of $1,000,000 will [illegible] It will take several years to [illegible] work.

BRIGHTON, N. Y.—Dr. Wm. [illegible]ochran, Health Officer, has received [illegible] in the State Health Commissioners th[illegible]proved plans for a sewage disposal p[illegible] to be erected in connection with the [illegible]roitsois hospital on the county farm prop[illegible] Plans were prepared under the supervi[illegible] of J. Y. McClintock, County Engr., R[illegible]ster.

FULTONVILLE, N. Y.—Govern[illegible] Hughes has signed the bill legalizing t[illegible]este of $10,000 of sewer and paving b[illegible]

*SOUTH AMBOY, N. J.—Bids w[illegible] be received by Joseph F. Fulton, City [illegible] until 7.30 a. m., March 29, for the c[illegible]truction of a sanitary sewer system here. [illegible]ph F. Fulton is City Clerk.

SYRACUSE, N. Y.—Contract wi[illegible]obably be let about Aug. 1 for the cons[illegible]on of the new trunk sewer to be constr[illegible] from E. Colvin St., and the Lackawa[illegible] R. R. tracks to Poplar St. and Ackerma[illegible], in the 17th Ward. Estimated cost [illegible],000. Henry C. Allen is City Engr.

ALLENTOWN, PA.—Plans and [illegible]ifica- tions for the proposed sewage disp[illegible] plant at the county house will be compl[illegible] in a few weeks. R. S. Rathbun is Coun[illegible] Engr.

*BALTIMORE, MD.—B. F. Sweet[illegible] & Son, Camden, N. J., were the lowest b[illegible]ers at $44,916, on March 2, for the constr[illegible]on of underwater discharge conduits, [illegible]anitary Contract No. 47, and David Peo[illegible] 213 North Calvert St., Baltimore, at [illegible],557, for the construction of storm-water drains, Contract No. 9. Calvin W. Hendri[illegible] is Ch. Engr. Sewerage Comn. Both recommended for award.

*WASHINGTON, D. C.—Bids are [illegible]ed by the Commissioners until 2 p. m., March 28, for constructing sewers in the District of Columbia.

BIG STONE GAP, VA.—Bids will be received until April 15 by the city for paving and sewer work. Estimated cost, about $22,000.

PORTSMOUTH, VA.—Contracts have been awarded as follows by the Sewer Commission for furnishing and erecting, including foundation, and all connections, etc., the following equipment for operating sewage ejectors: Air compressors to LAIDLAW-DUNN-GORDON CO.; boilers to ERIE CITY BOILER WORKS, and chimney to M. W. KELLOGG CO. Total cost, $15,065. V. O. Casson, Jr., is City Engr.

FLORENCE, S. C.—The MATTHEWS-JOHNSON CO., of Florence, was awarded contract by the Sewerage Commission on March 3, at $69,308, for constructing sanitary sewer system, 19 miles of pipe sewers from 8 to 18-in. diameter, and disposal plant, complete. H. S. Jaudon, Savannah, Ga., is Engr. H. K. Gilbert is Chn. Sewer Comrs.

MILTON, FLA.—The city has engaged Solomon-Norcross Co., 1622 Candler Bldg., Atlanta, Ga., to prepare plans for a sewer system. Bonds have been voted.

TUSCALOOSA, ALA.—Bids are asked by the city until March 17 for laying sewer pipe in connection with sanitary sewer construction. Estimated cost, $24,300. W. H. Nichol is City Engr.

ST. ELMO, TENN.—James A. Fairleigh, C. E., Memphis, Tenn., has estimated the cost of constructing sewer system at from $35,000 to $40,000.

*LOUISVILLE, KY.—The HENRY BICKEL CO., 443 Garden St., Louisville, has been awarded contract at about $55,000 for the construction of Section A of the Castlewood sewer. The work includes 1,440 cu. yds. of concrete masonry; 5,951 lin. ft. of concrete sewer, 39 to 66-in. diameter; 930 lin. ft. of 20-in. vitrified pipe; 4,521 lin. ft. of earth excavation; 1,500 cu. yds. rock excavation, and 2,760 sq. yds. of vitrified brick paving. Bids were opened on March 4.

*MOUNT STERLING, KY.—Bids were received by the City Clerk on March 1 for furnishing all material and laying complete about 9½ miles of sewers, varying in size from 6 to 24-in. in diameter, together with all manholes, lampholes, flush tanks, etc., also reinforced concrete septic tanks. Among the bidders were: C. E. Harris, Covington, Ky., $42,869; C. C. Miller & Co., Covington, $46,765; H. K. Bell, Lexington, Ky., $39,956 (bid on 200 yds. of rock instead of 2,000, difference of about $3,000); Louis des Cognets, Lexington, bid on septic tank only, $6,599; Clark County Construction Co., about $41,000. Charles E. Collins, Consult. Engr., Drexel Bldg., Philadelphia, Pa. Advertised last week.

AKRON, OHIO.—Bids will be received at the office of the Department of Public Service until March 21, for the construction of a storm water sewer in and along Bartges St., from a point 210 ft. east of Raymond St. to Snyder St., and in and along Snyder St., from Bartges St. to Howe St., with all the necessary catch basins, lampholes, manholes, ventilators and appurtenances, all in accordance with the plans, profile and specifications on file in the office of the City Engineer, where plans, profiles and specifications may be seen and bidding blanks may be obtained. John W. Gauthier is Dir.

DAYTON, OHIO.—Hecker & Kershner were low bidders on the contract for the Haynes St. sewer, on March 5, at $6,801 for concrete, with brick invert, and $6,593 for plain concrete. Seven bids were received.

LIMA, OHIO.—Bids are asked until noon, March 24, by S. S. Wheeler, Secy., Holland Bldg., Lima, for furnishing all labor and material necessary for the construction and completion of a 10-in. vitrified pipe sewer with catch basin and outfall wall for the District Tuberculosis Hospital.

CINCINNATI, OHIO.—Bids will be received until March 21 by the Board of Public Service, John J. Wenner, Clk., for furnishing material and constructing sewers in Vulte, Rosehill and Beechwood Aves.

CINCINNATI, OHIO.—Bids will be received at the office of the Director of Public Service, City Hall, Cincinnati, Ohio, until noon, March 22, for the improvement of Rosehill Ave., from a point 55 ft. more or less north of the existing most northerly manhole for 1,134.54 ft. westerly in ravine and right-of-way 299.78 ft. to an existing manhole in Mitchell Ave.; Beechwood Ave., from a point 90 ft. north of existing most northerly manhole 315 ft. to a proposed manhole in Rosehill Ave; also, surface water drain from the end of existing 18-in. surface water drain to the culvert to be constructed under Mitchell Ave., by constructing sewers and drains.

LORAIN, OHIO.—The City Council on March 7 passed legislation to proceed with the following sewer improvements: Construction of a storm water sewer from Lake Erie south in Colorado Ave. to East Erie Ave.; thence east in East Erie Ave. to Connecticut Ave.; thence south in Connecticut Ave. to E. St.; in A St., from Colorado Ave., 200 ft. southerly, and in East Erie Ave., from Connecticut Ave. to Delaware Ave.

NEWBURG (Cleveland post-office), OHIO.—Bids will be received by J. W. Shimeck, Clerk of the Bd. of Control of the city of Newburg, corner Rice Ave. and Buckeye Road, until noon, March 26, for improving Hulda Ave., formerly Westlake Ave., from the easterly limits of the city of Cleveland to the center line of East 109th St., formerly known as Fernciiffe St., by constructing sewer and concrete culvert therein. The W. H. Evers Engineering Co., The Arcade, Cleveland, is Engr.

STEUBENVILLE, OHIO.—Bids will be received by the Director of Public Service until noon, March 21, for furnishing the necessary labor and materials for a sewer in Alley D, from Ross to Clinton Sts., and Center Ave., from Alley D to Sixth Ave., according to plans and specifications on file in the office of the City Engineer. R. L. Freudenberger is Clk.

CANTON, ILL.—Bids are asked until April 14, by the City Engineer, for changes and extensions to the sewer system, according to plans prepared by A. T. Maltby, Great Northern Bldg., Chicago, Ill. The work will include sanitary and storm sewers from 8-in. up to 42-in.

ROCKFORD, ILL.—M. M. KINNEAR, of Rockford, Ill., has secured contract at $10,245, for the construction of the East End District Sewer, and at $3,464, for the construction of the Rockton Ave. and Garfield Ave. sewers. Bids were opened on March 4.

EVANSTON, ILL.—The Council has passed the ordinance for a sewer system in the Germania Addition. Estimated cost, $17,262. Petition will be filed in the court so work can be let about June 15. J. H. Moore is Comr. Pub. Wks.

CHICAGO HEIGHTS, ILL.—The city proposes to construct a system of storm sewers at a cost of $31,000. A. L. Fox, of Chicago Heights, is Engr.

SIOUX CITY, IOWA.—The lowest bidder for sewers in Plymouth and other streets in Cole's and Chase's Additions was L. Christenson & Co., Sioux City, at $10,851.

CANBY, MINN.—The contract for constructing sewers, sewage settling tank, etc., bids opened on Feb. 8, has been awarded to TANNER BROS., of Minneapolis, at about $24,000. List of bidders noted on March 3.

MANHATTAN, KAN.—Bids will be received by H. M. Hungerford, City Clk., until May 3 for constructing a complete sanitary sewer system. Estimated cost, $80,000. C. M. Buck is City Engr.

HOLTON, KAN.—The City Council on March 1 awarded contract for the construction of the sewer system and disposal works to P. A. JOHNSON & CO., of Kansas City, Kan., at $45,204. Other bids were: S. M. Kerns, Denver, Colo., $46,222; St. Joseph Construction Co., St. Joseph, Mo., $49,049; Reed & Tripp, Clay Center, $51,258; McGuire & Stanton, Leavenworth, $52,068. The work consists of about ten miles of sewer, septic tank and filter beds. William C. Bryant is Engr.

WINFIELD, KAN.—Bids will be received until March 21 by the city for constructing sewers in Highland Park Addition. Estimated cost, $5,000.

HEBRON, NEB.—LANG & BROWITT, of University Place, have secured contract for constructing main sewer for $2,936, and lateral sewers at $10,590. Bids were opened on Feb. 18. C. H. Meeker, of McCook, Neb., is Engr.

ALLIANCE, NEB.—ABEL & ROBERS, Lincoln, Neb., have been awarded contract by the city, at $12,881, for the construction of sewers in five districts and for a disposal plant. Bids were opened on March 2.

ST. LOUIS, MO.—The city has awarded contract for Claise Creek sewer to THOMAS FLYNN, at $23,319.

*EL PASO, TEX.—We are officially advised that all bids received by Percy McGhee, City Clk., on March 3, for furnishing material and constructing refuse incinerating and sewage pumping station, force main and sewage disposal works, with appurtenances, but not including furnaces, pumps and machinery. Also, same time and place, for construction of refuse incinerator, steel stack and sewage pumping station equipment. The bids were: Public Works Engineering Co., Beck Bldg., Portland, Ore., $57,937; The Destructor Co., Power Specialty Co., Mgr., 111 Broadway, New York, $61,-; Herring & Fuller, 170 Broadway, New York, are Engrs. F. H. Todd is City Engr.

MOUNTAIN VIEW, OKLA.—See item under Light and Power Plants.

LAWTON, OKLA.—The Secretary of the Interior, Washington, D. C., has awarded contract to J. M. ELY, Wellington, Kan., at $24,000, for the construction of a sanitary sewer system for the North Addition to Lawton. John D. Kennard, of Lawton, is Engr. Bids were opened on Feb. 16. List of bidders noted on March 3.

VANCOUVER, WASH.—The city proposes to construct a main sanitary sewer of vitrified pipe or concrete. Estimated cost, about $55,000. H. H. Lotter is City Engr. J. P. Kiggins, Mayor.

INGLEWOOD, CAL.—The City Trustees have decided to construct vitrified pipe storm drains in Commercial and Oak Sts. and Damask Ave.

LOS ANGELES, CAL.—Bids were opened by the Board of Public Works for constructing a vitrified sewer in Pasadena Ave. The lowest bidders were Joseph Gebavach at $17,998, and E. F. Brent at $18,991.

PASADENA, CAL.—The city has ordered the construction of 8-in. vitrified pipe sewers in 22 of the streets in the east and northeast section of city, requiring 47 manholes, 17 flush-tanks; also the paving of South Broadway with vitrified paving brick and the construction of cement curbs. Estimated cost sewers, $100,000. Herman Dyer is City Clerk.

*BRANTFORD, ONT.—Bids will be received by Joseph Marshall, Chn. Bd. of Works, until noon, March 31, for furnishing material and laying about 2,180 ft. of 12-in. extra strength pipe and 705 ft. 12-in. c.-i. pipe, manholes, etc. T. Harry Jones is City Engr.

*TORONTO, ONT.—Bids were asked by the Board of Control until noon, April 19, for constructing a high level interceptor at Toronto. Following are the sizes and approximate lengths of the various sections: Section No. 8, flattened shape, 1,216 lin. ft. 7.10 × 10 ft. diameter; Section No. 7, circular shape, 2,246 lin. ft. 9.0-ft. diameter; Section No. 1, circular shape, 2,072 lin. ft. 9.3-ft. diameter, and 1,836 lin. ft. 9-ft. diameter (total length section No. 1, 3,408 lin. ft.); Section No. 2, circular, 2,993 lin. ft. 9.9-ft. diameter; Don Syphon (crossing under River Don). C. H. Rust is City Engr.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

FORT STRONG (Boston post-office), MASS.—Bids will be received until 10 a. m., April 4, by Capt. A. H. Miller, Constr. Q. M., U. S. A., 263 Summer St., Boston, for constructing road, walks, and drain required at Fort Strong.

*ALBANY, N. Y.—Bids are asked by the State Commission of Highways, Albany, until 1 p. m., April 4, April 6 and April 8, respectively, for improving state highways, a list of which may be seen in the advertisement in this issue. S. Percy Hooker is Chn.

NEW YORK, N. Y.—Bids are asked until 11 a. m., March 24, by Cyrus C. Miller, Pres. Boro. of the Bronx, for paving various streets and laying sidewalks in the Bronx.

GALLITZIN, PA.—All bids recently received for 450,000 paving blocks and about 9,000 sq. yds. of brick paving have been rejected, and new bids will be received by Harry F. Conrad, Boro. Secy., until April 1. Daniel W. Dillman is Engr., Altoona Trust Bldg., Altoona.

YEADON, PA.—Bids will be received until March 24 by the Borough Council for laying sidewalks, curbs and gutters in this Borough. T. H. Dann is Secy.

PITTSBURG, PA.—We are officially advised that bids were received on March 8, by the County Commissioners at Pittsburg for paving with brick on Walnut St. in Versailles Township, Allegheny County. The contract for approximately 5,200 sq. yds. has been let to ROBERT WEIR, JR., of McKeesport, Pa., at $13,000. R. J. Cunningham is County Controller; D. E. Foster is County Road Surv.

FORT DuPONT (Delaware City post-office), DEL.—Bids will be received by the Constructing Quartermaster, U. S. A., until 11 a. m., April 4 for 1,934 sq. yds. of macadam roads and 3,777 sq. ft. granolithic sidewalks at Fort DuPont.

LYNCHBURG, VA.—The Council Committee on Streets on March 8 awarded the contract for paving portions of Ninth, Commerce and Eighth Sts. to J. L. FORD & CO., whose bid was $33,300.

BIG STONE GAP, VA.—See item under Sewerage.

CRAIGSVILLE, VA.—Bids will be received until 10 a. m., March 24, by the County Clerk at Staunton for constructing about 3½ miles of macadam road at Craigsville.

NORFOLK, VA.—A contract has been awarded to the ATLANTIC BITULITHIC CO., of Richmond, Va., for 2,600 sq. yds. of bitulithic pavement.

The Board of Control on March 5 awarded to the U. S. WOOD PRESERVING CO., of New York, the contract to pave Chapel St., from Queen to Moseley, with 3½-in. wood block, at $2.65 per sq. yd., the total bid being $5,167. W. T. Brooke is City Engr.

CHARLESTON, S. C.—The ATLANTIC BITULITHIC CO., of Richmond, Va., has secured the contract for constructing roads at the Charleston Navy Yard at $15,000.

*PENSACOLA, FLA.—We are officially advised that bids were received on March 10 by L. G. Aymard, Clerk Bd. of Pub. Wks., for constructing about 635,000 sq. ft. of concrete sidewalks. L. Earle Thornton is City Engr. The bids follow: Whiddon Construction Co., of Pensacola, Fla., 11 cts. per sq. ft.; W. W. HATCH & SONS CO., of Goshen, Ind., 9.40 cts. (awarded contract); Kinsey & Vogel, of Muskogeem, Okla., 9.9 cts.; Wm. M. Elder, Baltimore, Md., 9.875 cts.; Sullivan Cement Stone Co., Sullivan, Ind., 10.4 cts. The contract has been awarded to W. W. HATCH & SONS CO., of Goshen, Ind., at 11 cts. per sq. ft.; contract to extend for one year.

HARRISONBURG, LA.—Bids are asked by the Police Jury of Catahoula Parish, La., until noon, April 4, for improving 25 miles of roads. The Parish will furnish road machine and grader. H. W. Bethard is Secy.

*LAKE CHARLES, LA.—Bids are asked until 8 p. m., March 28, by C. H. Burton, City Engr., for cement sidewalks and curb.

CLEVELAND, OHIO.—Bids are asked by A. B. Lea, Dir. Pub. Service, until noon, March 23, for grading, draining, curbing, paving and improving various streets in Cleveland. Brick, dressed block, Medina stone and asphalt will be used for paving.

Bids are asked by the Commissioners of Cuyahoga County until 11 a. m., March 30, for the improvement of Depot Road by grading, draining, improving the same from Woosters Pike, at Strongsville Center to Prospect road, at Vigil in Strongsville Township, in accordance with the form of contract and specifications to be furnished by Frank R. Lander, County Surv.

Bids will be received at the office of the Board of Commissioners of Cuyahoga County until 11 a. m., April 6, for the improvement of the North Woodland Road No. 2 by grading, draining and improving the same from Brainard Road to Chagrin River Road in Orange Township.

CINCINNATI, OHIO.—Bids will be received at the office of the Director of Public Service, City Hall, Cincinnati, Ohio, until noon, March 22, for furnishing the necessary labor and materials for the improvement of Bethesda Ave., from Elland Ave. to Eden Ave., by grading, setting granite curbs, paving the roadway with wood blocks and constructing the necessary inlets and drains; for the improvement of Eden Ave., from a point 17 ft. north of Nixon St. to north line of Bethesda Ave., by grading, setting granite curbs, paving the roadway with wood blocks and constructing the necessary inlets and drains.

Bids are asked at the office of the Director of Public Service, City Hall, Cincinnati, Ohio, until noon, March 21, for furnishing the necessary labor and materials for the improvement of O'Bryon St., from Madison Road to Beechwood Ave., by grading, setting cement combined curb and gutter, paving the roadway where the grade does not exceed 6% with brick, and where the grade exceeds 6% with boulders and constructing the necessary drains and retaining walls.

COLUMBUS, OHIO.—The City Council of Columbus has declared by resolution that it is necessary to improve Siebert St., between Parsons Ave. and the second alley east of Heyl Ave.; Third St., from Broad St. to Naghten St.; Sixth St., from Broad St. to State St.; Indiana Ave., from Lane Ave. to Duxbury Ave., and Thurman Ave., from Jaeger St. to Parsons Ave.

OAKLEY (Cincinnati post-office), OHIO.—Bids are asked by Oscar Kosche, Village Clerk, until noon, March 25, for furnishing the necessary labor and materials for the construction of a cement sidewalk on both sides of Webster Ave., from Clark St. to 30th St., four ft. in width.

TOLEDO, OHIO.—Bids are asked by the Board of Public Service until March 18 for repaving Erie St. with asphalt, bitulithic or creosoted block, laid on present stone paving, about 6,270 sq. yds. G. W. Tonson is Ch. Engr.

Contracts for street paving aggregating $27,890 and for four sewers aggregating $8,838, were awarded by the Board of Control on March 7. The paving contracts were awarded as follows: Michigan St., from Galena to Chicago, carbo-via with concrete foundation, Berea curb, to GARRIGAN BROS., $6,007; repaving City Park Ave., Emerald to Swan Creek, vitrified paving block on concrete foundation, Berea curb and asphalt filler, to WALTERS & TANSEY, $7,565; grading Ohio St., from Summit Ave., 357 ft. southeast, to JOSEPH W. McMAHON, $850; grading and macadamizing Cincinnati St., from Summit to Ontario, carbo-via paving, concrete foundation, Berea curb, to GARRIGAN BROS., $4,292; grading and paving Columbus St., from Summit to Chase, vitrified paving blocks on concrete foundation, sand filler and Berea curb, to WALTERS & TANSEY, $4,867; repaving Buckeye, from W. & L. E. to point 520 ft. north, vitrified paving blocks, concrete foundation, asphalt filler and Berea curb, to OHIO PAVING CO., $4,507.

STEUBENVILLE, OHIO.—Bids will be received by the Director of Public Service of the city of Steubenville, until noon, March 21, for furnishing the necessary labor and materials for the paving and curbing of Alley C, between Madison Ave. and Franklin Ave.

FOWLER, IND.—The Benton County Commissioners let contracts on March 8 aggregating $150,000 for the construction of gravel and rock roads. There were fifty bidders.

ROCKVILLE, IND.—Bids are asked by the Commissioners of Parke County until 1.30 p. m., April 5, for the construction of the Perry Harmless gravel road, including bridges, in Jackson Township. H. A. Henderson is Audr.

PETERSBURG, IND.—Commissioners of Pike County are advertising for sale $40,000 of road bonds in Jefferson Township and $16,000 of road bonds in Logan Township. The Commissioners will ask for bids as soon as the bonds are sold.

RUSHVILLE, IND.—Bids will be received by the Commissioners of Rush County until 2 p. m., April 4, for the construction of a macadam road in Richland Township. Jesse M. Stone is Audr.

MUNCIE, IND.—Bids are asked until April 4 by the Commissioners of Delaware County for paving the Yorktown Road with brick, from Main St. to the railroad, and with macadam from the railroad to the Center Township line.

The Board has awarded a contract to WILLIAM BIRCH to construct a brick roadway in Kilgore Ave. at $22,900.

TIPTON, IND.—Bids are asked by the Commissioners of Tipton County until 10 a. m., April 4, for the construction of a stone road in Wildcat Township and a stone road in Cicero Township. J. F. Barrows is Audr.

TIPTON, IND.—The Commissioners of Tipton County have awarded contracts for the construction of the following gravel roads: Reese Road, Jefferson Township, to BOOHER & DAVIS, of Windfall, Ind.; Harlem Road, in Prairie Township to SANFORD BROWNING, of Windfall; McNew Road, Liberty Township, to HENDERSON & CAGE, of Tipton; Becker Road, Liberty Township, to HENDERSON & CAGE, of Tipton; Huser Road, Jefferson Township, to SANFORD BROWNING, of Windfall, and the Borrow Road, in Windfall, to BOOHER & DAVIS.

CRAWFORDSVILLE, IND.—Bids will be asked soon by Commissioners of Montgomery County for the construction of 2½ miles of gravel road in Madison Township.

The contract for the construction of the Thomson gravel road, three miles in length, has been let to JOHN JOHNSON, for $9,900.

VINCENNES, IND.—We are officially advised that bids were received by J. T. Scott, Audr. of Knox County, on March 8, for the construction of four gravel roads in Busseron Township: Road No. 1, 4,315; Road No. 2, 4,880; Road No. 3, 3,400, and Road 4, 3,065 ft. in length, respectively. Two roads were awarded to HUGH O'DONNELL, of Vincennes, and two to C. F. WOLFE, of Vincennes.

BRAZIL, IND.—We are officially informed that bids were received on March 11, by the Board of Commissioners of Clay County, in the Auditor's office in Brazil, for constructing 8,308 ft. of gravel road in Washington Township. The contract has been let to Edward Aarnink, of Bowling Green, Ind., at $4,957. James L. Burns, Brazil, is County Audr.; Frank A. Kattman is Engr.

HARTFORD CITY, IND.—Contracts for the construction of the Hiatt-Willman and the Chapman macadam roads were awarded by the County Commissioners on March 7. CLAMME BROS. secured the Hiatt-Willman road, at $12,475, and WILLIAM GRADY, of Jay County, the Chapman Road, his bid being $7,490.

MICHIGAN CITY, IND.—Bids will be received until March 22 for paving Hermitage Ave. with vitrified brick; about 4,375 sq. yds. H. M. Miles is City Engr.

FLINT, MICH.—J. F. HILL has secured the contract for paving with asphalt a portion of Third St. at $18,378.

MORRIS, ILL.—We are officially advised that the Aetna Engineering Bureau, Consult. Engr., 125 La Salle St., Chicago, has been retained to prepare plans for approximately $150,000 worth of public improvements.

SPRINGFIELD, ILL.—The contract for paving Jefferson St. with brick and asphalt fill, about 4,400 sq. yds., has been awarded to HENRY NELCH & SON. Second and Cedar Sts., at $6,270. Frank H. Hamilton is City Engr. Bids were received March 2.

FREEPORT, ILL.—Contracts will probably be let about April 15 for paving work as follows: Union St., with brick, about 9,000 sq. yds., probable cost, $16,989; Adam St., with brick, about 21,000 sq. yds., cost, $38,990, and Whistler St., with macadam, 7,220 sq. yds., cost $8,190. It is also proposed to pave with brick about two blocks on Liberty and Exchange Sts., cost, about $8,000. John A. R. Daniels is City Engr.

NORMAL, ILL.—Bids are asked by the Town of Normal, J. H. Keys, Clerk, until 3.30 p. m., March 26, for constructing a vitrified brick pavement, on a 5-in. concrete Portland cement foundation, on Broadway, about 23,000 sq. yds. James G. Mellulsh, Unity Bldg., Bloomington, Ill., is Engr.

GREEN BAY, WIS.—We are officially advised that bids were received as follows by the Committee on Streets and Bridges on Feb. 17 to improve various streets in this city. A complete list of bids was given on March 3. The following contracts were awarded on March 9: To J. F. HILL, of Chicago, Ill., West Walnut St., from Fox River Bridge to Water St., using Trinidad Lake asphalt, $2,145; West Walnut St., from Water St. to Oakland Ave., $11,411; Dousman St., from Broadway to Allard Ave., $26,477; East Walnut St., from Fox River Bridge to Washington St., $2,418; Monroe Ave., from Main St. to Porlier St., $38,692; Adams St., from Main St. to south line of Astor Pl., $29,043.

To W. W. HATCH & SON CO., Goshen, Ind., using brick, cement filler, Dousman St., from Fox River Bridge to Broadway, $4,899.

To the McGRATH CONSTRUCTION CO., Green Bay—Concrete, South Ashland Ave., from Mason St. to Sixth St., $6,061; Stuart St., from Washington to Madison, $5,261; Chicago St., from Washington St. to Monroe Ave., $3,918; Howard St., from Jefferson to Madison, $1,587; School St., from Madison St. to Monroe Ave., $1,587; Moravian St., from Madison St. to Monroe Ave., $1,587. Tar macadam—Shawano Ave., from Oakland Ave. to Allard Ave., $9,648; North Ashland Ave., from Dousman St. to Mather St., $9,805; Fifth St., from Broadway to Greenwood Ave., $8,428; North Chestnut Ave., from Mather St. to Bhoebe St., $3,710; North Oakland Ave., from West Walnut St. to Dousman St., $6,016; Pine St., from Jefferson St. to Monroe Ave., $3,175; Doty St., from Washinngton St. to Monroe Ave., $7,656; Crook St., from Washington St. to Monroe Ave., $7,128. W. W. Reed is City Engr.

MILWAUKEE, WIS.—See item under Bridges.

MOUNT PLEASANT, IOWA.—The contract will be let soon for 35 blocks of brick paving, to consist of about 40,000 sq. yds. Cost, $100,000. C. E. Waterhouse is City Engr.

WATERLOO, IOWA.—The contract for paving Arizona St. has been awarded to BRYANT-FORD-McLAUGHLIN & ASPHALT PAVING CO. Commercial Bank Bldg., Waterloo, at $1.90 per sq. yd. for asphalt and 60 cts. per lin. ft. for combined curb and gutter. R. C. Thompson is City Clerk.

MINNEAPOLIS, MINN.—We are officially advised that at a meeting of the City Council held on March 11 bids were received for materials for the season of 1910, and the following contracts let: Paving was ordered constructed to a total amount of $850,000,

the largest part of which is creosoted wood block. Contracts were awarded as follows, viz.: 150,000 sq. yds. of 4-in. creosoted wood blocks REPUBLIC CREOSOTING CO., Minneapolis, Norway and tamarack at $1.32½ per sq. yd. f. o. b., long leaf pine at $1.55 per sq. yd. f. o. b.; 40,000 bbls. of Atlas Portland cement, N. W. LIME CO., St. Paul, Minn., $1.10 per bbl. f. o. b.; 3,000 cu. yds. of crushed granite, WESTERN GRANITE CO., St. Cloud, Minn., $1.98 per cu. yd. f. o. b.; 20,000 sq. yds. of brick blocks, PURINGTON PAVING BRICK CO., Galesburg, Ill., 90.8 cts per sq. yd. f. o. b.; 40,000 sq. yds. of sandstone blocks, KETTLE RIVER CO., Minneapolis, $1.54 per sq. yd. f. o. b.; 5,000 lin. ft. of granite curb, N. W. GRANITE CO., St. Cloud, Minn., 65 cts. per lin. ft. f. o. b. straight, 75 cts. per lin. ft. f. o. b. radius; 5,000 lin. ft. of sandstone curb, KETTLE RIVER CO., Minneapolis, straight, 53 cts. lin. ft. f. o. b., radius, 63 cts. per lin. ft. f. o. b. Andrew Rinker is City Engr.

Bids are asked by the City Council until March 25 for a 10-ton road roller for the Fourth Ward streets. Andrew Rinker is City Engr.

Bids will be received until March 31 by J. A. Ridgway, Secy. Bd. Park Comrs., for constructing a park drive between Superior Ave. and Sixth Ave. North through Glenwood Park.

FARIBAULT, MINN.—Bids will be received March 19 by the Common Council for paving with brick, biome, concrete, mineral rubber, macadam, sandstone block and creosoted block Central Ave., Third and Fourth Sts., requiring in all about 25,700 sq. yds. of pavement and one mile of curb.

SIOUX FALLS, S. DAK.—Bids are asked by the City Auditor until March 29 for paving Sixth St. and for constructing State Road No. 18.

*BOZEMAN, MONT.—Bids are asked by A. M. Brandenburg, City Clerk, until 7 p. m., April 7, for the construction of cement sidewalks, curbs, gutters and crosswalks in the city of Bozeman.

INDEPENDENCE, MO.—Bids will be received until March 18 by the County Court for four miles of draining and grading on the C. A. Duck Road; also for 2½ miles on the W. H. Holke Road, 2½ miles east of Independence.

Bids will be received same place as above until March 22 for grading and draining the Tarrsney, Red Bridge and Coal Mine Rock Roads; probable cost, $7,150, $7,150 and $6,945, respectively. R. T. Proctor is County Engr., Independence. S. A. Boyer is Clerk, Independence.

DALLAS, TEX.—A contract has been let to the TEXAS BITULITHIC CO., Dallas, Tex., for 1,193 sq. yds. of brick pavement.

CATHLAMET, WASH.—Bids will be received at the office of Joseph Girard, Audr., until noon, March 19, for the opening and construction of county road established around the hill known as the "McKinley Hill" on the upper Klocoman County road.

PORTLAND, ORE.—The following contracts have been let: HEBE CONSTRUCTION CO., 8,409 sq. yds. bitulithic pavement; WARREN CONSTRUCTION CO., 44,123 sq. yds. bitulithic pavement.

LOS ANGELES, CAL.—The Board of Public Works has let contract to GEORGE R. CURTIS for improving 43d St., at 20 cts. per ft. for asphalt paving.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Bids were received on March 12 as follows by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing a wire-rope mill at the Navy Yard, Boston: Daniel O'Brien, 1722 Park St., Syracuse, N. Y. Otis elevator. (1) $53,870; (2) $49,986; (3) $56,900 (Wilson type); (4) $53,528; (5) $55,370. Noel Construction Co., U. S. Fidelity & Guaranty Bldg., Baltimore, Md., (1) $52,500; (2) $49,000; (3) $3,400 (add); (4) $100 (deduct); (5) $1,200 (add); (6) $1,700 (deduct); (7) additional concrete footings, $6.60 cu. yd. J. E. Locatelli & Co., Inc., 46 Cornhill St., Boston, Mass., (1) $45,628; (2) $41,319; (3) $2,793 (add); (4) $100 (deduct); (5) $1,050 (add); (6) $3,900 (deduct). Kennedy & Peterson, 18 Cambria St., Boston, Mass., (Wilson shutter and elevator manufactured by The Portland Co.), (1) $43,990; (2) $44,215; (3) $3,180; (4) $460 (deduct; (5) $1,130; (6) $4,600. William Crane, 7 Water St., Boston, Mass., (Otis elevator), (1) $55,676; (2) $51,796; (3) $3,489 (4) no change; (5) $1,500; (6) $3,500. C. M. Leach, P. O. Box 2285, Boston, Mass., (1) $49,873; (2) $45,983; (3) $3,000; (4) $200 (deduct); (5) $3,173; (6) $4,500. Charles H. Belledeu, Inc., 35-39 Wareham St., Boston, Mass., (1) $51,820; (2) $3,800 (deduct); (3) $3,517 (add); (4) $160 (deduct); (5) $1,800 (add). The Connors Bros., 157 Plain St., Lowell, Mass., (Otis elevator), (1) $46,600; (2) $42,800; (3) $2,600 (Wilson, add); (4) $200 (deduct); (5) $1,500 (add); (6) $3,300 (deduct). H. P. Converse & Co., 83 Broad St., Boston, Mass., (Otis elevator), (1) $55,000; (2) $51,200; (3) $3,000 (Wilson); (4) $100 (deduct); (5) $1,800; (6) $5,000 (deduct). James E. Leamy & Co., 26 Larned Bldg., Syracuse, N. Y., (1) $52,244; (2) $48,444; (3) $2,882; (4) $300; (5) $2,636. Marr Bros. & Stewart Co., 95 Milk St., Boston, Mass., (1) $52,987; (2) $49,103; (3) $55,744 (Wilson); $56,069 (Wilson); (4) $100 (deduct); (5) $1,800 (add); (6) $4,225. Whitcomb & Kavanaugh Co., 6 Beacon St., Boston, Mass., (1) $61,678; (2) $57,798; (3) $3,505 (add); (4) $200 (deduct); (5) $973 (add); (6) $3,695 (deduct).

NEW MILFORD, CONN.—The plant of the New Milford Foundry & Machine Co., which was burned March 1, will be rebuilt, according to the present plans of the owner, Jasper A. Northrop. The loss by the fire was $20,000, including valuable patterns.

WATERTOWN, N. Y.—The TORRINGTON BUILDING CO. has secured the contract for the erection of an additional factory for Cluett, Peabody & Co., of Waterford, N. Y., manufacturers of shirts and collars. The plans call for a brick structure 105 × 344 ft., two and four stories high.

NEWARK, N. J.—The Central Stamping Co., of Newark, N. J., is preparing to make an addition to its plant at 591 Ferry st., which will include the erection of several 1 and 2-story brick buildings.

ROCKINGHAM, N. C.—The stockholders of the Hannah Pickett Mills Co., of Rockingham, N. C., have given their sanction to the recently announced enlargement proposed by the directors. The managers will arrange at once for the erection of the 100 × 250-ft. addition and the installation of 200 looms. This installation will enable the company to weave the product of its 10,000 ring spindles, which have been producing cotton yarns. The expenditure for the betterments will amount to probably $60,000.

COOLEEMEE, N. C.—J. M. Greenfield, of Kernersville, N. C., has decided to locate a mill for knitting hosiery at Cooleemee, N. C. He will prepare plans and specifications at once for the building and decide on the number of machines to be installed. Contracts probably will be awarded within 60 days.

CHAPEL HILL, N. C.—The T. F. Lloyd Mfg. Co., of Chapel Hill, N. C., contemplates obtaining plans and specifications for the erection of a building to be equipped with 10,000 spindles and complementary apparatus to manufacture cotton yarns. This company was recently incorporated with a capital stock of $200,000. It expects to complete arrangements during the next two weeks and to award contracts for buildings and machinery. The incorporators include T. F. Lloyd, I. W. Pritchard, of the Bank of Chapel Hill, W. S. Roberson and Louis Lloyd.

CHESTER, S. C.—F. M. Boyd, of Chester, S. C., and B. B. Reid, of Newberry, S. C., will form a $25,000 company to build a hosiery mill at Chester. They intend to install 100 knitting machines, dyeing and finishing equipment, electrical motors, etc. Mr. Boyd will be Pres. and Mgr.

VALDOSTA, GA.—The Georgia, Southern & Florida Ry. Co., J. B. Munson, Vice-Pres., Macon, Ga., has purchased 14 acres of land at Valdosta, on which will be erected car repair shops to cost about $40,000. It is stated that a roundhouse will be built later.

ARCHER, FLA.—The Maddox Foundry & Machine Co., Archer, will erect a 40 × 118-ft. addition to its machine shop and a 30 × 40-ft. addition each to its pattern and blacksmoth shops. It is in the market for equipment for these additions.

JOHNSON CITY, TENN.—D. D. Little, of Spartanburg, S. C., is planning the erection of a cotton factory at or near Johnson City, Tenn. He is interested now in several successful cotton manufacturing enterprises and may soon announce plans for another plant. Mr. Little is Pres. and Treas. of the Marion Mfg. Co., now building a mill at Marion, N. C.

ELKHART, IND.—It is reported that bids will be asked by the Brice H. Reid Co. for the erection and installation of a factory building. B. H. Reed is Pres.

BOSWELL, IND.—The Boswell Grain Co. has been incorporated to build and equip a grain elevator and storehouse. Charles Menefree, W. R. Frazier, Samuel Nall, Carl Lamb and Joseph Signer are Dirs.

JACKSON, MICH.—Allen & Hill, Archs., 711 Gas Bldg., Detroit, have let general contract to NORTH & BROSSHAM, Jackson, Mich., for a bakery, with two stories and basement, 211 × 90 ft. Price, $22,000. Owner, Jackson Bakery Co.

NORTH CHICAGO, ILL.—Bids are asked by R. F. Nicholson, Ch. of Bureau of Navigation, Navy Dept., Washington, D. C., until noon, April 6, for a refrigerating and ice-making plant at the Naval Training Station, Great Lakes, North Chicago, Ill. We are officially advised that this installation includes a 30-ton refrigerating machine, a 5-ton ice-making plant, together with certain cold storage insulation, brine circulating pipes, and auxiliary apparatus. Proposals for this work are in two parts, to be opened at Washington, D. C., one part by the Bureau of Navigation, and one part by the Bureau of Supplies and Accounts. Specifications are on file at the office of Engineering News, New York.

EAU CLAIRE, WIS.—A manufacturing plant is to be built at Eau Claire, Wis., by the Girnau Mfg. Co., recently organized, which has been incorporated in order to enter upon the construction of contractors' machinery, including concrete mixers.

SHEBOYGAN, WIS.—The American Hide & Leather Co. is considering the erection of a 3-story addition, 20 × 170 ft., to its plant on New York Ave.

MILWAUKEE, WIS.—It is stated that the O. C. Hansen Mfg. Co., 365 East Water St., Milwaukee, manufacturers of gloves and mittens, contemplates erecting a factory building at Milwaukee and Detroit Sts. in this city. The building will be eight stories high. The structure will cost about $125,000.

RHINELANDER, WIS.—The Robbins-Johnson Lumber Co. has let the contract for the erection of a saw mill on the site of the Clayton mill to D. J. MURRAY MFG. CO., of Wausau. It is to be ready May 1.

DES MOINES, IOWA.—The M. N. Baker Machinery Co., 206 West Court Ave., has secured a site, 60 × 160 ft., at East Fourth and Grand Sts., for the erection of a factory building to cost from $20,000 to $30,000.

MONTICELLO, IOWA.—Bids for the duster factory for the Hoag Duster Co., to be erected from plans by Harry E. Netcott, Independence, Iowa, are as follows: H. C. EHRKE, Lamont, Iowa, $13,634 (awarded contract); C. W. Ennis, Toledo, Iowa, $14,800; George A. Netcott, Independence, $15,346; G. W. Smith, Cedar Rapids, $16,827; A. B. Brown, Cedar Rapids, $16,500; Southerland & Southerland, Cedar Rapids, $20,000.

MUSCATINE, IOWA.—The Puritan Ice Co., Muscatine, Iowa, has awarded a contract to WILLIAM KINCAID, of this city, for the construction of an ice plant. It is hoped to have the building sufficiently advanced to begin installing the machinery in four or five weeks.

LAKE MILLS, IOWA.—Kinney & Jogerst, Archs., are preparing plans for a canning factory which Scar Nelson will erect at Lake Mills, Iowa. It will be 50 × 137 ft., brick or cement exterior, a portion of it will have one story, a portion two stories and a part three stories. The building will be of reinforced concrete construction, with electric wiring. Cost, $15,000.

MINNEAPOLIS, MINN.—JOHN WUNDER, Lumber Exchange, has the contract to erect the addition to the factory of the Northwestern Knitting Co., Lyndale and Western Aves. The building will be of reinforced concrete, 150 × 250 ft., five stories high. It will have a double basement, gray brick exterior, steam heat, plumbing, electric wiring, and the machinery and equipment necessary for the manufacture of knit goods. Cost, $100,000.

TUCUMCARI, N. MEX.—S. W. Bunce, of Boulder, Colo., will erect a factory for manufacturing brick, here. Estimated cost, $20,000.

VENTURA, CAL.—The Ventura Mill & Lumber Co. has had plans prepared for a fireproof brick building, 80 × 120 ft., to be erected on Front St., to replace its present mill.

SAN DIEGO, CAL.—The San Diego Packing Co. will erect a $40,000 factory for curing and packing fish products. The company has been incorporated for $150,000 by D. H. Hume and associates.

INGLEWOOD, CAL.—William Howley and Charles W. Grant, of Los Angeles, Cal., will establish a paint and oil manufacturing plant here. A site has been donated on Railroad St.

WINNIPEG, MAN.—See items under Canadian Pacific Rys. under "Railways."

SPRINGFIELD, MAN.—Bids are asked for equipment for locomotive shops, etc. See item under Transcontinental Ry., under "Railways."

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

ROAD ROLLERS.—New York, N. Y.—See item under Streets and Roads.

DREDGING.—Baltimore, Md.—Bids will be received until 11 a. m., March 23, by the Board of Awards for dredging. O. F. Lackey, Harbor Engr.

DREDGING.—Wilmington, Del.—Bids will be received by Maj. R. R. Raymond, Corps Engrs., U. S. A., until March 18, for dredging the St. Jones and Murderkill Rivers, Del.

DREDGING.—Toronto, Ont.—Bids will be received until noon, March 30, by C. W. Postlethwaite, Harbor Master, for dredging required in the harbor of Toronto for this season.

SAFES.—Washington, D. C.—Bids will be received by James Knox Taylor, Supervising Arch., Treasury Dept., until March 25, for furnishing safes for various public buildings.

ROAD OIL.—New York, N. Y.—Bids will be received until 3 p. m., March 31, by the Department of Parks for furnishing and delivering 50,000 gals. of dust preventive or road oil.

CEMENT.—Winnipeg, Man.—The Board of Control has let contract for furnishing 25,000 bbls. cement (bids opened Feb. 21) to W. P. LEE, of Winnipeg, at 64.06 cts. per 100 lbs.

MOULD.—New York, N. Y.—Bids will be received by the Department of Parks until 3 p. m., March 24, for furnishing and delivering 1,700 cu. yds. of organic mould for parks, Boro. of The Bronx.

WHARF.—St. John, N. B.—The Harbor Commissioners will call for bids probably in April or May for a wharf at Reed's Point, including warehouse, to cost about $40,000. Wm. Murdoch is City Engr.

DITCHING.—Geneseo, N. Y.—Bids were received on March 5 for 6,000 lin. ft. of ditching for the use of the village of Geneseo. Contract was let to ANDREW BROWN, of Geneseo, at 49 cts. per cu. yd. of earth.

TILE.—New York, N. Y.—Bids will be received until 3 p. m., March 24, by the Department of Parks for furnishing and delivering clay, loam and porous agricultural drain tile for parks, Boro. of The Bronx.

CEMENT.—New York, N. Y.—Bids are asked until 3 p. m., March 24, by the Department of Parks for furnishing and delivering 100 bbls. of Portland cement (No. 1, 1910), for parks, Boro. of The Bronx.

*TIMBER.—Detroit, Mich.—Bids will be received until 3 p. m., April 14, by Col. C. McD. Townsend, Corps Engrs., U. S. A., Jones Bldg., for furnishing and delivering at St. Marys Falls Canal, Michigan, about 2,630,000 ft. B. M. of timber.

ENLARGING DITCH.—Sioux City, Iowa.—No bids were received on March 2 by E. E. Hosmer, County Auditor, for enlarging lateral "G" of the Farmers' Ditch; lateral is about 4¾ miles in length and the amount of excavation is about 16,000 yds.

VACUUM CLEANER.—Cleveland, Ohio.—Bids will be received until March 23 by the County Building Commission for installing a vacuum cleaning plant in the Cuyahoga County court-house. French & Hubbard, Engrs., Albany Bldg., Boston, Mass.

*LOCK GATES, ETC.—Wheeling, W. Va.—Bids will be received by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., until 11 a. m., March 21, for furnishing and erecting steel lock gates and lock-operating machinery for Dams Nos. 8 and 11, Ohio River.

CEMENT.—Atlanta, Ga.—Bids will be received by R. V. La Dow, Supt. of Prisons, Dept. of Justice, Washington, D. C., until 10 a. m., April 4, for furnishing and delivering at the United States penitentiary, Atlanta, Ga., 10,000 bbls. of Portland cement, for use at that institution.

CRIB WORK.—North Chicago, Ill.—Bids will be received until noon, March 2[illegible] by the Bureau of Navigation, Navy Dept., Washington, D. C., for the construction of the south outer crib at harbor entrance designated as Crib "B," Naval Training Station, Great Lakes, North Chicago, Ill.

AIR COMPRESSOR OUTFIT.—New York, N. Y.—Bids were received on March 3 by Kingsley L. Martin, Bridge Comr., for furnishing and installing an automatic fire alarm system. Contract was let to the [illegible]WELL FIRE ALARM TELEGRAPH CO., 19 Barclay St., New York. Estimated cost, $5,000.

DITCHES.—Valparaiso, Ind.—Bids were received by G. F. Stinchfield, County Audr., on March 1 for constructing the Swanson-Lamporte Ditch, eight miles in length, including 68,594 cu. yds. excavation. Estimated cost, $10,209. Contract was awarded to H. L. DeNEEN, Imlay City, Mich., at 10 cts. per cu. yd.

DITCH.—Grant Park, Ill.—Bids were received on March 3 by the Drainage Commissioners of Exaline Creek, Union District No. 2, towns of Sumner and Hill, at the office of Emery L. Jarvis, Clk., Grant Park, for enlarging and grading a ditch about six miles in length. Contract was awarded to WM. BROWN, Hebron, Ind.

DRAINAGE.—Spencer, Iowa.—Bids will be received until March 18 by the Board of County Supervisors for constructing the Ocheyedan River improvement, known as Drainage Dist. No. 6 requiring 610,754 yds. excavation in Sections 1-6, consecutively, and separate bid for Section 7, 1,167 yds. A. W. Chamberlain, County Audr.

*TILE DRAINS.—Monticello, Ill.—Bids were received on Feb. 26 by the Lake Fork Special Drainage District Commissioners at County Clerk's office, Monticello, Ill., for the construction of 25,955 ft. of tile drains ranging in size from 8 to 20 ins. W. J. Day, Bement, Ill., is Engr. Contract has been awarded to MEPES, CAZALET & DEBRUN, of Assumption, Ill., at $7,982.

TRAM, CYANIDE PLANT, ETC.—Fairview, N. Mex.—The Black Range Reduction Works, of Weber (Fairview post-office), N. Mex., is drawing plans and will consider bids for an aerial tram system, and 100-ton milling and cyanide plant to be driven by steam-electric power; also for electric hoists, air compressors, drills, etc., for its gold and silver properties in the Black Range Mountains.

*COMFORT STATIONS.—Niagara Falls, N. Y.—Bids will be received until noon, March 25, for construction complete, including plumbing and electric work, of Public Comfort Station No. 1, and Dressing Pavilion and Public Comfort Station No. 2 on Goat Island, State Reservation, Niagara Falls, N. Y. Bids will be received by Edward H. Perry, Supt. State Reservation, Niagara Falls.

DITCH.—Columbus, Ohio.—Bids were received March 7 by the County Commissioners for deepening and straightening Mason Run Ditch in Truro and Mifflin Townships, Secs. 1, 2, 3 and 4, a total distance of 19,900 ft., containing 15,763 cu. yds. coarse gravel and clay excavation. Hugh K. Lindsey, County Surveyor. Contract was awarded to WARD, WELLINGTON & CO., Ashville, Ohio, at $4,295.

*DREDGING EQUIPMENT.—Philadelphia, Pa.—Bids will be received by Jos. F. Hasskarl, Acting Dir., Dept. Wharves, Docks and Ferries, until noon, March 28, for one hydraulic dredge, one combination dredge, one tug boat not less than 80 ft. over all, one tug boat not less than 60 ft. over all, one or three bottom dump scows of about 500 yds. capacity, and one or three bottom dump scows of about 300 yds. capacity.

DITCHES.—Harvel, Ill.—Bids were received March 1 by the Commissioners of Union Drainage District No. 2, towns of Harvel and Kings, counties of Montgomery and Christian, at Harvel, for cleaning out and reconstructing open ditches, estimated to contain 49,886 cu. yds. J. W. Dappert is Engr., Taylorville. Contract was awarded to A. J. KLEUTSCHY, Farmersville, Ill. Estimated cost, $9,977.

*BARGE CANAL.—Albany, N. Y.—Bids will be received by F. C. Stevens, Supt. Public Works, until noon, April 7, for Contract No. 90: Erie Canal, Section 6; Oswego Canal, Section 1; Champlain Canal, Section 3. For furnishing and installing equipment for operating and lighting Lock No. 24 on Erie Canal, Locks Nos. 1, 2, 7 and 8 on Oswego Canal, and Locks Nos. 9, 11 and 12 on Champlain Canal. Sheets 1 to 65, inclusive.

RIFLE RANGE.—Blauvelt, N. Y.—The State Armory Commission has awarded contracts for the construction of new State Rifle Range at Blauvelt, Rockland County, N. Y., as follows: For the construction and grading, to MARTIN MURRAY, Troy, N. Y., at $111,121; for the electrical work, to FROST & SHELDON, Albany, N. Y., at $9,870; for scorers' desks, to W. L. STOTT LUMBER CO., of Norwich, N. Y., at $1,554. Major F. A. McNeeley is Secy. of the Comn.

CANALS.—Edenton, N. C.—Bids will be received by the Commissioners of the Pear Swamp Drainage District, W. J. Berryman, Secy., Edenton, N. C., on March 29 for construction of canals, including one main canal and five branches, amounting to 145,000 cu. yds.; bids to be given for each in detail per cu. yd. Plans, profiles, specifications and other information may be had of Patrick Matthews, Ch. Engr., Supt. of Construction, Edenton. Two other large districts are to be opened right away in adjacent territory.

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

	Noted in issue of
3-18 Substation, New Orleans, La.	3-17
3-21 Materials, New York.	3-10
3-23 Lighting equipment, Cleveland, O.	3-10
3-23 Franchise, Williamsburg, Va.	3-10
3-28 Franchise, Los Angeles, Cal.	3- 3
4- 1 Gas franchise, Ft. William, Ont.	3-17
4- 2 Heating, etc., Portland, Me.	3-17
4- 5 Wiring, etc., Fort Dade, Fla.	3-10
4- 6 Franchise, Hayward, Cal.	3- 3
4- 7 Power plant, Albany, N. Y.	3-17
4-13*Light system, Ft. Sill, Okla.	3-17
4-14*Power station, Rumford, Me.	3-17
4-15 Elec. plants, Camrose, Alta.	3-10

Bridges.

3-19 Bridge, Georgetown, Colo.	3-10
3-19 Bridge work, Cleveland, Ohio.	3-10
3-19 Bridge repair, Richmond, Ind.	3-17
3-21 Bridge, Minneapolis, Minn.	3-17
3-22 Bridges, Grand Fork, N. Dak.	3-10
3-22*Bridge, Shreveport, La.	3- 3
3-24 Bridge work, Reading, Pa.	3-10
3-26 Bridge, Dawson, Ohio.	3-17
3-28 Bridges, Hartford City, Ind.	3-10
3-29 Bridges, Muskogee, Okla.	3-10
3-29*Bridge, Kempton, Pa.	3-10
3-31*Bridges, Minneapolis, Minn.	3-10
4- 4 Bridge, Streator, Ill.	3-10
4- 4 Bridge, Laporte, Ind.	3- 3
4- 4 Bridge, Talladega, Ala.	3-17
4- 4 Bridge repair, Harrisonburg, La	3-17
4- 5 Bridge, San Jose, Cal.	3- 3
4- 5 Bridge, Castlerock, Wash.	2-24
6- 1 Substructure, Whiterocks, Utah.	3-10

Buildings.

3-18 Post-office, Rome, Ga.	2- 3
3-18 Ordnance shop, Ft. Wadsworth, N. Y. (Mfg. Pl.)	3- 3
3-19 Building, New York.	3- 3
3-21 School, New York.	3-10
3-21 Quarters, etc., Ft. D. A. Russell, Wyo.	3- 3
3-21 Post-office, Lincoln, Ill.	2-17
3-21 School, Fresno, Cal.	3-10
3-21 University bldgs., Saskatoon, Sask	3-17
3-22 School, Erie, Pa.	3-17
3-22 School, Newark, N. J.	3-10
3-22*Post-office, Fremont, Neb.	2- 3
3-23 Quarters, Ft. Totten, N. Y.	3- 3
3-23*Post-office, Connersville, Ind.	2-17
3-23 School, Baltimore, Md.	3-17
3-23 Auditorium, Wichita, Kan.	3-17
3-24 Building, New York.	3-17
3-24 Post-office, Sacramento, Cal.	2- 3
3-25 Post-office, Lexington, Ky.	2-17
3-25 Light-house, etc., San Francisco, Cal.	3-10
3-25 Storehouse, Ft. Barrancas, Fla.	3-10
3-26 Church, Kelowna, B. C.	3-10
3-26 Post-office, Rochester, N. Y.	3-10
3-28*Post-office, Quincy, Ill.	2-17
3-28 School, Cincinnati, Ohio.	3-10
3-29 Post-office, Estherville, Ia.	2-17
3-30*Court-house, Butte, Mont.	2- 3
3-30 Post-office, Peru, Ind.	3- 3
3-31 Post-office, Brainerd, Minn.	3- 3
3-31 Quarter, Ft. Sam Houston, Tex.	3-10
4- 1 Buildings, Ft. Mason, Cal.	3- 4
4- 1 Post-office, Hattiesburg, Miss.	3- 3
4- 2 Buildings, Ft. Williams, Me.	3-17
4- 5 Guardhouse, Ft. Dade, Fla.	3-17
4- 6 Quarters, Ft. Niagara, N. Y.	3-17
4- 5 Post-office, Independence, Mo.	3- 3
4- 6 Ice plant, North Chicago, Ill. (Mfg. Pl.)	3-17
4- 8 Hospital, Columbus, Ohio.	3-17
4-11 Post-office, Ashtabula, Ohio.	3-10
4-14 Post-office, Columbus, Neb.	3-17
4-27*Post-office, Enid, Okla.	3-17
7- 1 Plans, New Orleans, La.	3-17

Water-Works.

3-18 Dam, etc., Russell, Kan.	3-17
3-19*Dams, etc., Kiowa, Colo.	3- 3
3-21 Water-works extension, Columbus, Kan.	3- 3
3-21*Steam engine, Galesburg, Ill.	3- 3
3-21 Standpipe, Saskatoon, Sask.	3- 3
3-21 Water tower, Faulkton, S. Dak.	3- 3
3-21 Water pipe, Santa Ana, Cal.	3-10
3-21 Pipe connections, Hammond, Ind.	3-10
3-21 Pumps, Great Falls, Mont.	3-17
3-22 C.-I. pipe, etc., Reading, Pa.	3-17
3-22 Water meters, Hamilton, Ohio.	3-17
3-23 Water piping, Utica, N. Y.	3-17
3-23 Water meters, Fulton, N. Y.	3-17
3-25 Reservoir, Center, Colo.	3-17
3-25*Main, Lebanon, Pa.	3- 3
3-28 Water system, Cincinnati, Ohio.	3-17
3-29*Pumping plant, Burlington, Iowa	3-17
4- 1*Water-works, Miles, Tex.	3-10
4- 4 Water pipe, Winnipeg, Man.	3-10
4- 5 Water mains, Madison, Wis.	3-17
4- 5 *W.-wks. conduit, Meridian, Miss.	3-17
4- 6*Pumping plant, Fort Hancock, N. J.	3-10
4-11*W.-Wks. bonds, Ramona, Okla.	3-10
4-14 Water-works supplies, Aberdeen, S. Dak.	3-10

Sewers.

3-17 Sewer pipe, Tuscaloosa, Ala.	3-17
3-21 Sewers, Cincinnati, Ohio.	3-17
3-21 Sewer, Steubenville, Ohio.	3-17
3-21 Sewer, Akron, Ohio.	3-17
3-21 Sewers, Winfield, Kan.	3-17
3-21 Sewers, Albany, N. Y.	3-17
3-22 Sewers, Cincinnati, Ohio.	3-17
3-23 Sewers, Brooklyn, N. Y.	3-10
3-23 Sewer franchise, Williamsburg, Va.	3- 3
3-24 Sewers, New York.	3-17
3-24 Sewer, Lima, Ohio.	3-17
3-26 Sewer, Newburg, Ohio.	3-17
3-28*Sewers, Wash., D. C.	3-17
3-29*Sewer system, South Amboy, N. J.	3-17
3-29 Sewers, New York.	3-17
3-31*Sewer pipe, Brantford, Ont.	3-17
4- 5*Sewer system, Comstock, N. Y.	3-17
4- 1 Sewer system, Cleveland, Tenn.	2-17
4- 4 Culvert, Ashley, N. Dak.	2-10
4-14 Sewer extension, Canton, Ill.	3-17
4-15 Sewer work, Big Stone Gap, Va.	3-17
4-19*Sewer, Toronto, Ont.	3-17
5- 3 Sewer system, Manhattan, Kan.	3-17

Streets and Roads.

3-18 Paving, Iowa City, Ia.	3-10
3-18*Paving, Matteawan, N. Y.	3-10
3-18 Paving, Toledo, Ohio.	3-17
3-18 Grading, Independence, Mo.	3-17
3-19 Paving, Faribault, Minn.	3-17
3-19 Grading, Cathlamet, Wash.	3-17
3-21 Grading, etc., Cleveland, Ohio.	3-17
3-21 Paving, Steubenville, Ohio.	3-17
3-21 Paving, Mt. Clemens, Mich.	3- 3
3-22 Walks, Canton, Ohio.	2-24
3-22 Paving, Cincinnati, Ohio.	3-17
3-22 Paving, Michigan City, Ind.	3-17
3-22 Grading, Independence, Mo.	3-17
3-23 Paving, etc., Cleveland, Ohio.	3-17
3-23 Roads, Olympia, Wash.	3-10
3-24 Highways, Baltimore, Md.	3-10
3-24 Highway, Erie, Pa.	3-10
3-24 Paving, New York.	3-17
3-24 Walks, etc., Yeadon, Pa.	3-17
3-24 Macadam, Craigsville, Va.	3-17
3-25 Sidewalks, Oakley, Ohio.	3-17
3-25 Road roller, Minneapolis, Minn.	3-17
3-25 Road, Cincinnati, Ohio.	3- 3
3-26 Pavement, Normal, Ill.	3-17
3-28*Sidewalk, Lake Charles, La.	3-17
3-29 Paving, Sioux Falls, S. Dak.	3-17
3-30 Road, Cleveland, Ohio.	3-17
3-30 Paving, Raleigh, N. C.	2-10
3-30 Road, Cleveland, Ohio.	3-10
3-30 Macadam, Columbus, Ohio.	3-10
3-31 Driveway, Minneapolis, Minn.	3-17
4- 1 Paving, Gallitzin, Pa.	3-17
4- 1 Roads, Cincinnati, Ohio.	3-10
4- 4*Roads, walks, Ft. Du Pont, Del.	3-10
4- 4 Road, etc., Ft. Strong, Mass.	3-17
4- 4 Roads, Harrisonburg, La.	3-17
4- 4 Macadam, Rushville, Ind.	3-17
4- 4 Stone road, Tipton, Ind.	3-17
4- 4 Paving, Muncie, Ind.	3-17
4- 4*Roads, Albany, N. Y.	3-17
4- 5 Gravel road, Rockville, Ind.	3-17
4- 6*Roads, Albany, N. Y.	3-17
4- 6 Road, Cleveland, Ohio.	3-17
4- 7*Walks, Bozeman, Mont.	3-17
4- 8*Roads, Albany, N. Y.	3-17
4-12 Macadam, St. Paul, Minn.	3- 3

Miscellaneous.

3-18 Dredging, Wilmington, Del.	2-24
3-18 Levee, Memphis, Tenn.	3- 3
3-18 Dredging, Ashland, Ohio.	3-10
3-18 Dredging, Wilmington, Del.	3-17
3-18 Drainage, Spencer, Iowa.	3-17
3-21*Lock gates, etc., Wheeling, W. Va.	3-17
3-21*See Abilene Central R. R.	3- 3
3-21 Dredging, Brunswick, Ga.	2-24
3-23 Revetment, Ft. Screven, Ga.	3- 3
3-23*Ash collection, etc (Garbage), Washington, D. C.	3-10
3-23*Breakwater, Chicago, Ill.	3-10
3-23 Dredging, Baltimore, Md.	3-17
3-23 Steel rails, etc., see Transcontinental Ry.	3-17
3-23 Vacuum cleaner, Cleveland, O.	3-17
3-24 Mould, New York.	3-17
3-24 Cement, New York.	3-17
3-24 Tile, New York.	3-17
3-24*Cement, Duluth, Minn.	3- 3
3-24 Derrick boats, Wheeling, W. Va.	3- 3
3-25*Comfort stations, Niagara Falls, N. Y.	3-17
3-25 Safes, Wash., D. C.	3-17
3-26 Canals, Edenton, N. C.	3-17
3-26 Ditches, Bluffton, Ind.	3- 3
3-28*Dredging equipment, Phila., Pa.	3-17
3-29*Dredging, New York.	3- 3
3-29 Barge Canal, Albany, N. Y.	2-24
3-30 Snagboat, Wheeling, W. Va.	3- 3
3-30 Dredging, Toronto, Ont.	3-17
3-30*Crematory (Garbage), Fort Sheridan, Ill.	3-10
3-31 Road oil, New York.	3-17
4- 1*Dredging, New York.	3- 3
4- 1 Torpedo boats, Wash., D. C.	2- 3
4- 4 Culverts, Ashley, N. Dak.	2-10
4- 4 Cement, Atlanta, Ga.	3-17
4- 7*Barge canal, Albany, N. Y.	3-17
4- 7 Ash-hoist, Baltimore, Md.	3-10
4-12 Shop equipment, etc., See Transcontinental Ry. (Rys.)	3-17
4-14*Timber, Detroit, Mich.	3-17
4-15 See Algoma Central & Hudson Bay Ry.	3- 3
4-30 Ditch, Olivia, Minn.	12-23

Examinations.

3-29 Mechanical and Optical Dftsman, Philadelphia, Pa.	3- 3
3-29Clerk-Draftsman, Cheyenne, Wyo.	3- 3
3-29 Mechanical Dftsman, Wash., D. C.	3- 3
3-30 Scientific Asst., Wash., D. C.	2-10
4- 6 Scientist in Soil Survey, Wash., D. C.	3- 3

Plans and Specifications on File.

The following plans (Pl) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

3-18 Dredging, Wilmington, Del. (S.)	3-17
3-18 Dredging, Wilmington, Del. (S.)	2-24
4- 6 Ice plant, No. Chicago, Ill. (S.)	3-17

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 106.

SEWER SYSTEM.

NOTICE.

South Amboy, N. J.

Sealed proposals will be received at the office of the City Clerk on or before the twenty-ninth day of March, 1910, at the hour of seven thirty p. m., and to be opened at the last mentioned date, and heard at a public meeting of the Common Council of the City of South Amboy, to be held at said time and place for the construction of a sanitary sewer system for the City of South Amboy, N. J.

Contract No. 1 as set forth and described upon the plans heretofore filed by the City Engineer with the City Clerk.

All bids must be accompanied by a certified check drawn to the order of the City of South Amboy, N. J., for Five Hundred ($500) Dollars.

The following is the amount of work to be done and the materials furnished in the construction and completion of said work and upon which bids will be compared:

1,000 cubic rods of concrete in place.

2,000 lineal feet of 24 in. cast iron pipe in place.

1,000 lineal feet of 24 in. clay pipe sewer in place.

1,300 lineal feet of 20 in. clay pipe sewer in place.

3,070 lineal feet of 15 in. clay pipe sewer in place.

2,444 lineal feet of 10 in. clay pipe sewer in place.

10,500 lineal feet of 8 in. clay pipe sewer in place.

Sufficient brick manholes complete with cover as provided by the plans on file as aforesaid.

Each proposal must be enclosed in a sealed envelope properly endorsed with the name of the bidder, and directed to the Common Council of the City of South Amboy, N. J.

Bidders must specify in their proposals that should the above work be awarded to them they will bind themselves to finish and complete the same within one hundred and twenty working days from the date of the acceptance of their bid.

The plans and specifications of the work can be examined at the office of the City Clerk and of the City Engineer of the City of South Amboy, N. J.

Said proposals to be accompanied by the consent, in writing, of two sureties, or a surety company qualified to do business in New Jersey, who shall, at the time of putting in such proposals, qualify as to their responsibility in the amount of such proposal, and bind themselves that, if the contract be awarded to the person or persons making the proposal they will, upon its being so awarded, become his or their sureties for the faithful performance of said work; and that if the person or persons omit or refuse to execute such contract, they will pay to the City of South Amboy, N. J., any difference between the sums to which he or they would have been entitled upon completion of the contract, and that which the City of South Amboy, N. J., may be obliged to pay the person or persons by whom such contract shall be executed.

The Common Council of the City of South Amboy, N. J., reserve to themselves the right to accept or reject any or all proposals for the above work, as they may deem best for the interest of the city.

By direction of the Common Council of the City of South Amboy, N. J.

JOSEPH F. FULTON,
City Clerk.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Still, Okla., March 12, 1910.—Sealed proposals, in triplicate, subject to the usual conditions, will be received at this office until 10 o'clock a. m., April 13, 1910, and then publicly opened, for Electric Light and Power Plant and Electric Lighting System at Fort Sill. Specifications, blue-prints and further information furnished on application to the undersigned. Certified check for $10 will be required to insure return of plans, etc. Check will be returned upon return of plans, etc., to this office. Proposals should be endorsed "Proposals for Electric Light and Power Plant, Electric Lighting System," as the case may be, and addressed to CAPT. DAVID L. STONE, U. S. A., Constructing Quartermaster.

HIGH LEVEL INTERCEPTING SEWER.

Toronto, Ont.

Sealed tenders addressed to the Chairman of the Board of Control, City Hall, Toronto, Canada, endorsed "Tender for Section No. 1, High Level Interceptor" or "Tender for Don Syphon, High Level Interceptor," etc., as the case may be, for the construction of the several sections of High Level Interceptor mentioned below, will be received by registered post only, until noon of Tuesday, April 19th, 1910.

The following are the sizes and approximate lengths of the various sections:

1. Section No. 8, Flattened shape, 1216 linear feet 7' 10" x 10' 0" diameter.
2. Section No. 7, Circular shape, 3,246 linear feet 9' 6" diameter.
3. Section No. 1, Circular shape, 2,072 linear feet 9' 3" diameter, and 1,336 linear feet 9' 0" diameter. (Total length Section No. 1, 3,408 linear feet.)
4. Section No. 2, Circular, 2,993 linear feet, 8' 9" diameter.
5. Don Syphon (crossing under River Don).

Specifications may be obtained from, and original drawings will be on file and can be seen at the Main Drainage Department, City Engineer's Office.

For the convenience of contractors, sets of blue prints have been prepared and will be issued to contractors upon the deposit of $10.00, which amount will be refunded upon return of blue prints in good condition within thirty days of receiving tenders.

The usual conditions relating to tenders as prescribed by City By-law must be strictly complied with or the tender will not be entertained.

The lowest or any tender not necessarily accepted.

G. R. GEARY (Mayor),
Chairman, Board of Control.

City Hall, Toronto, March 10th, 1910.

HYDRO-ELECTRIC STATION ADDITION.

Rumford, Maine.

Sealed proposals will be received at the office of the Company's Engineer in Rumford, Maine, until April 14, 1910, for the ledge excavation and masonry cradles for one thousand feet of fourteen foot penstock; for the relief pipe concrete spill-way; for machinery and building excavations and concrete foundations; for the brick and concrete station building and for the cofferdam and the ledge excavations of the tail race; all for an addition to the present power station.

The approximate quantities of the principal items will be: 4,000 cu. yds. ledge excavation, 500 cu. yds. rubble masonry, 1,200 cu. yds. concrete and 112 brick work.

Plans and specifications will be ready March 21st, and may be seen in the Engineer's office, also in the office of George Burnham, Archt., 120 Exchange Street, Portland, Maine.

The right to reject any or all bids is reserved.

RUMFORD FALLS POWER COMPANY.
CHARLES A. MIXER,
Engineer.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
(Incorporated.)

Sealed proposals for the construction of a sewer known as the Brook Street Sewer, Contract No. 62 of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, April 8, 1910.

The work will consist mainly of building a reinforced concrete sewer 7' 6" x 10' 0" in diameter, about 5,198 feet long, including about 5,000 cu. yds. of concrete and 495,000 lbs. steel.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Brook Street Sewer" and addressed to the Commissioners of Sewer-

age, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

P. L. ATHERTON,
Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

SEWER CONSTRUCTION.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
(Incorporated.)

Sealed proposals for the construction of the Third Street Sewer, Contract No. 64, will be received at the office of the Commissioners of Sewerage, 605 Equitable Building, Louisville, Ky., until 12 o'clock noon, April 1st, 1910.

The work consists mainly of the construction of 1,435 ft. of 51" reinforced concrete sewer, 2,645 ft. of 33" and 24" unreinforced concrete sewer, 670 ft. of 18" vitrified pipe, including 4,750 ft. of earth excavation, from 6 to 22 ft. deep; about 575 cu. yds. of reinforced concrete, 515 cu. yds. of unreinforced concrete, and 43,000 lbs. of steel reinforcement.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposals for Third Street Sewer," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

P. L. ATHERTON,
Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
(Incorporated.)

Sealed proposals for the construction of a sewer known as Section "A" of the Frankfort Ave. Sewer, Contract No. 63, of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, April 1, 1910.

The work will consist mainly of building a combination sewer and drain 8" to 18" diameter, total length about 2,337 ft., and from 8.5 to 18.0 ft. deep, and including 50 cu. yds. of concrete and 4,674 ft. of vitrified pipe from 8" to 18" diameter.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Section "A" Frankfort Ave. Sewer," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

P. L. ATHERTON,
Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

CEMENT SIDEWALKS.

Lake Charles, La.

Bids will be opened at 8 P. M., March 28, for seven miles of cement sidewalk and curb at the City Hall, Lake Charles, Louisiana. For specifications and information address

C. H. BURTON,
City Engineer.

OFFICE, COMMISSIONERS, DISTRICT OF COLUMBIA, March 14, 1910.—Sealed proposals will be received at this office until 2 o'clock p. m., March 28th, 1910, for the construction of sewers in the District of Columbia. Forms of proposals, specifications and necessary information may be obtained from Chief Clerk, Engineer Department, Room 427 District Building, Washington, D. C. CUNO H. RUDOLPH, JOHN A. JOHNSTON, WM. V. JUDSON, Commissioners, D. C.

ROAD WORK.

NOTICE TO CONTRACTORS:—STATE OF NEW YORK, Office of the State Commission of Highways, Albany, N. Y.—Pursuant to the provisions of Chapter 30, Laws of 1909, sealed proposals will be received by the undersigned at their office No. 55 Lancaster Street, Albany, N. Y., at one o'clock P. M., on Monday, the 4th day of April, 1910, for the improvement of the following highways:

County.	Road No.	Name of Road.	Approx. Miles.
Tompkins	683	Dryden-Cortland	3.57
Allegany	801	East Rushford-Gordonville Bridge	4.68
Otsego	787	East End	0.47
Tioga	845	Spencer-Candor, Part 1	4.05
Steuben	850	Caton-Corning	6.14
Schuyler	5047	Watkins-Montour Falls	1.64
Chemung	5048	Lowman-Waverly, Part 1	2.50
Broome	834	Kirkwood-River	7.50
Delaware	5045	Deposit-Hale's Eddy	3.04
Monroe	5046	Scottsville-Mumford	5.77
Wyoming	854	Castile Center-Perry Center	4.50
Niagara	740	Sanborn-Pekin	2.75
Livingston	715	Dansville-Mount Morris Part 2	4.54
Erie	5054	Eighteen Mile Creek	2.00
Chautauqua	857	Roberts Road	1.62
Cayuga	852	Meridian Village	0.81
Chenango	664	Otselic-S. Otselic, Part 1	4.33
Madison	811	Georgetown-Otselic	2.39
Ontario	5041	Lima-E. Bloomfield, Part 2	2.41
Oswego	5044	Mexico-Union Square, Part 1	3.50

Sealed proposals will also be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock P. M., Wednesday, the 6th day of April, 1910, for the improvement of the following highways:

County.	Road No.	Name of Road.	Approx. Miles.
Tompkins	682	Ithaca-Dryden, Part 2	3.95
Tioga	5049	Waverly-Owego, Part 1	2.58
Otsego	786	Cherry Valley-Roseboom	3.76
Monroe	851	Hilton Village	1.11
Niagara	729	Shawnee-Cambria	3.20
Livingston	855	Mount Morris Village	0.47
Chautauqua	5053	Levant-Poland Center	2.54
Seneca / Cayuga	5042	Auburn-Seneca Falls, Part 2	3.33
Chenango	665	Oxford-McDonough, Part 2	5.18
Madison	812	Canastota-South Bay	4.81
Monroe	494	East Henrietta-Rochester	4.43
Oswego	661	Oswego-W. 5th Street-Fruit Valley	3.58
Suffolk	5008	Jericho Turnpike	3.56
Lewis	847	Copenhagen-Lowville, Part 2	5.74
Oneida	5052	New Hartford Village	0.65
Hamilton	848	Long Lake-Grove	3.76
Chenango	596-A	Norwich-South New Berlin	0.34
Albany	755	Altamont-Knox	4.25
Rensselaer	5040	Hoosick Falls Village	1.56
Onondaga	555	East Syracuse-Chittenango	7.79
Dutchess	628	Rock City-Lafayetteville	4.66

Sealed proposals will also be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock P. M., Friday, the 8th day of April, 1910, for the improvement of the following highways:

County.	Road No.	Name of Road.	Approx. Miles.
Tompkins	5043		2.59
Otsego	5037	Ithaca-Danby, Part 1	3.50
Monroe	492	Richfield Springs-Schuyler Lake	5.75
Genesee	853	Lake, Part 2 and 4th Section	4.07
Livingston	856	Batavia-Elba	1.32
Cayuga	686	Geneseo Village	8.72
Ontario	5015	Weedsport-Cato	1.19
Oswego	746	Canandaigua Village	1.12
Chenango	598-A	Carley's Mills-Parish	0.22
Oneida	761	Norwich-Preston	6.32
Lewis	5036	Deansboro-New Hartford	2.61
Hamilton	5038	Lowville-Martinsburg	3.00
Fulton	542	County Line-Hope Center	2.69
Albany / Schoharie	5039	School House-Caroga Creek / West Berne-Gallupville	4.01
Nassau	5051	Little Neck-Old Westbury, Part 3	1.97
Sullivan	823	Falls Mills-Callicoon	4.82
Suffolk	846	Sag Harbor-Easthampton	5.30
Dutchess	5050	Casper Creek-Wappingers Falls	2.14
Warren	5055	Riverside-Weavertown, Part 1	1.68

Maps, plans, specifications and estimates may be seen and proposal forms obtained for roads in the counties of Dutchess, Nassau, Suffolk and Sullivan, at the office of Division Engineer S. J. Stewart, Columbus Hall, Poughkeepsie, N. Y.; for the counties of Albany, Fulton, Rensselaer, Schoharie and Warren, at the office of Division Engineer H. P. Willis, Humane Hall, Albany, N. Y.; for the counties of Hamilton, Lewis and Oneida at the office of Division Engineer G. H. Miller, Cleveland Building, Watertown, N. Y.; for the counties of Cayuga, Chenango, Madison, Onondaga, Ontario, Oswego and Seneca at the office of Division Engineer F. W. Sarr, corner of South Clinton and West Jefferson Streets, Syracuse, N. Y.; for the counties of Chautauqua, Erie, Genesee, Livingston, Monroe, Niagara and Wyoming at the office of Division Engineer M. W. Wilbur, 423 Cutler Building, Rochester, N. Y., and for the counties of Allegany, Broome, Chemung, Delaware, Otsego, Schuyler, Steuben, Tioga and Tompkins, at the office of Division Engineer Paul McLoud, 47 Court Street, Binghamton, N. Y.

The especial attention of bidders is called to "Information for Proposers" on pages 6 and 7 of the specifications.

Proposals for each road must be presented in a separate sealed envelope endorsed on the outside with the name and number of the road for which the proposal is made.

Each proposal must be accompanied by a New York draft or certified check payable to the order of the State Commission of Highways for an amount equal to at least five per cent. of the amount of the proposal which such draft or check accompanies.

This draft or check will be held by the Commission until the contract and bond are duly executed.

The successful bidder will be required to give a bond for fifty per cent. of the amount of the contract; such bond to be executed by a Surety Company to be approved by the Commission, or a bond secured by the deposit of collateral securities to be approved by the Commission.

The right is reserved to reject any or all bids.

S. PERCY HOOKER,
Chairman.
T. WARREN ALLEN,
ROBERT EARL,
Commissioners.

TENDERS FOR CONSTRUCTION OF IRRIGATION CANALS AND EARTH DAMS.

THE CANADIAN PACIFIC RAILWAY COMPANY.
IRRIGATION DEPARTMENT.
Calgary, Alberta, Canada.
March 15th, 1910.

Sealed Tenders will be received up to noon of May First, Nineteen Hundred and Ten, addressed to the undersigned, for all Excavation required to complete the Canal System in the Eastern Section of the Canadian Pacific Railway Company's Irrigation Block, Alberta, amounting to upwards of twenty-five million cubic yards of material.

Plans, Specifications, and all other information may be seen at the office of the Assistant Chief Engineer, Calgary, Alberta.

Proposals will only be accepted for the work as a whole, and must be accompanied by a certified cheque for Twenty-Five Thousand Dollars ($25,000) payable to J. S. Dennis, as a guarantee that the party awarded the contract will execute the same. Cheques of unsuccessful Bidders will be returned to them immediately after the awarding of the Contract.

J. S. DENNIS,
Asst. to 2nd Vice-President,
Canadian Pacific Railway Co.

SIDEWALKS.

Aberdeen, Wash.

Sealed proposals will be received by the undersigned up to 5 o'clock P. M., Wednesday, April 6th, 1910, for the paving and constructing sidewalks, curbs, and gutters on portions of Market and K Streets, estimated at $45,000.00. Bids must be upon the blanks furnished by the City Engineer and a certified check for 5% of the contract price must accompany each bid. The contractor shall accept at par the bonds issued for such improvement, which shall be issued in accordance with Ordinances No. 877 and No. 878 upon Improvement Districts No. 298 and No. 299.

Bid separate for paving and concrete Walks.

The law only allows eight hours a day for municipal work.

Mark envelopes "Bid for Market Street."

P. F. CLARK,
City Clerk.

U. S. ENGINEER OFFICE, Jones Building, Detroit, Mich., March 14, 1910.—Sealed proposals for furnishing and delivering at St. Marys Falls Canal, Michigan, about 2,630,000 feet B.M. of Timber, will be received at this office until 3 p. m., April 14, 1910, and then publicly opened. Information on application. C. McD. TOWNSEND, Col., Engrs.

Situations Wanted

Mechanical Engineer

Executive ability,
20 years' experience designing, estimating, construction and selling,
Thoroughly posted on Hydraulic, Pumping, Mining, Central Station and General Machinery.
Accustomed to handling large forces. Desires responsible engagement. Address "W. C. 11," Engineering News, New York. 11-1t

Situations Open

WANTED, at once, engineer experienced in outline surveying and subdivision work, to go to Huntington, L. I. Must be good computer, graduate man preferred. Apply in person only, Room 1934, Park Row Building, N. Y. City, 9-12 A. M., March 21st, 1910 (Only). 11-1t

ASSISTANT TO MANAGER of established construction concern located in New York City; knowledge both outside and office work necessary; must have ability; age 25 to 30; excellent opportunity for right man. Address, stating experience "C. C. 11," Engineering News, New York. 11-1t

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